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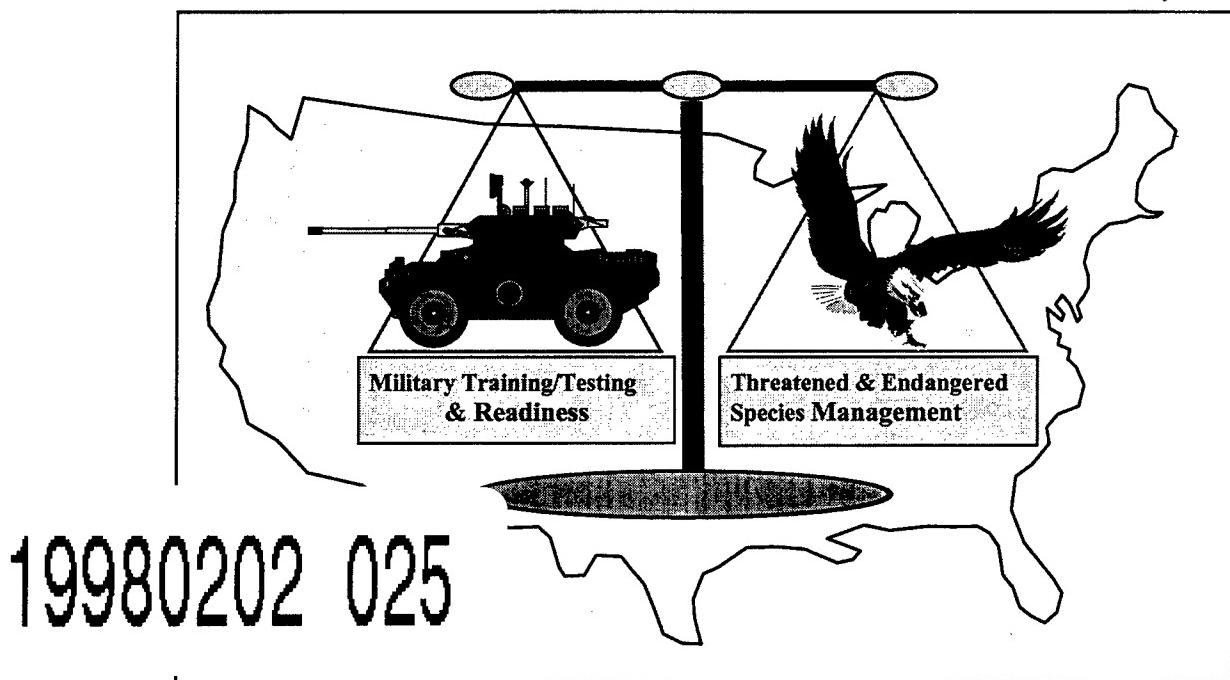
Construction Engineering  
Research Laboratories

USACERL Technical Report 98/17  
December 1997

# The 1996 Survey of Threatened and Endangered Species on Army Lands: A Summary Report

by

Rachel A. Shaw, Eric R. Schreiber, and Alison Hill



Compared with other Federal land management agencies, the military has a large number of Federally Threatened and Endangered (T&E) species per acre on its lands. In some instances, this has resulted in conflict between T&E conservation requirements and the installation commander's ability to train soldiers and test weapons and equipment to assure readiness. Army leadership made a commitment to pursue innovative ways to manage and monitor the increasing number of T&E species on their lands. This commitment included developing a reliable and comprehensive source of T&E species information to ensure compliance with the Endangered Species Act (ESA), Army policy, and training and testing readiness.

A survey was administered to installations with the potential for T&E species in November of 1996. Installations were asked about the Federally Threatened, Endangered, Proposed, and Candidate (TEPC) species known to reside on or contiguous to the installation. The survey's 50 questions focused on T&E point-of-contact information, T&E management and compliance concerns, and restrictions/impacts on the training and testing mission. Two hundred and one installations/training areas, representing ten Major Commands (MACOMs) returned surveys. This report provides the Department of Army (HQDA) and the MACOMs with summaries based on survey responses.

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## Foreword

This study was conducted for the U.S. Army Environmental Center (AEC) and the Office of the Directorate of Environmental Programs (ODEP), Assistant Chief of Staff for Installation Management (ACSIM) under Military Interdepartmental Purchase Request (MIPR) 3176, "1996 TES Survey, Phase 1: Survey Development and Administration" and MIPR 2357 "1996 TES Survey, Phase 2: Analysis and Reporting." The technical monitor was Scott Belfit, SFIM-AEC-EC.

The work was performed by the Natural Resource Assessment and Management Division (LL-N) of the Land Management Laboratory (LL), U.S. Army Construction Engineering Research Laboratories (USACERL). The USACERL principal investigator was Dr. Alison Hill. Robert M. Lacey is Acting Chief, CECER-LL-N and Dr. William D. Severinghaus is Operations Chief, CECER-LL. The USACERL technical editor was Gloria J. Wienke, Technical Resources.

COL James A. Walter is Commander and Dr. Michael J. O'Connor is Director of USACERL.

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# 1 Introduction

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## Background

Compared with other Federal land management agencies, the military has a disproportionately large number of Threatened and Endangered (T&E) species on its lands (Flather, Joyce, and Bloomgarden 1994). In some instances, this has resulted in conflict between T&E conservation requirements and the installation commander's ability to train soldiers and test weapons and equipment to assure readiness. Because of this potential conflict, the Office of the Directorate of Environmental Programs (ODEP) and the Army Environmental Center (AEC) are pursuing innovative ways to manage and monitor the increasing number of T&E species on Army lands. Army leadership is committed to developing a reliable and comprehensive source of T&E species information to ensure compliance with the Endangered Species Act (ESA), Army policy, and training and testing readiness.

## Objective

The objective of this research was to conduct a survey of T&E species on Army lands. Information gathered by the survey will help Army leadership comply with the ESA.

## Approach

The project consisted of two phases. Phase One was to develop a T&E survey for installations. Phase Two was to administer the survey and conduct analysis and reporting.

**Phase One: Develop the Survey Instrument.** The 10-month development process required substantial collaboration with the Army Threatened and Endangered Species Users Group, an advisory group consisting of members from ODEP, Army Major Commands (MACOMs), AEC, the Office of the Deputy Chief of Staff for Operations and Plans (ODSCOP), and installations. This phase required soliciting ideas for developing the questions, facilitating discussions about the wording of the questions, and coordinating the review of six rounds of revisions.

Researchers from the U.S. Army Construction Engineering Research Laboratories (USACERL) consulted with survey research experts at the University of Illinois to obtain help in designing early versions of the survey. A review meeting, held midway in the process, helped accelerate agreement on the scope and wording of the questions. The instrument was pretested by 12 potential survey recipients (i.e., Army installation personnel) for process improvement, refining question content, and expanding survey instructions. Pretests helped ascertain if the questions could be answered and showed how they might be interpreted.

Installations were asked about Federally Threatened, Endangered, Proposed, and Candidate species known to reside on, or contiguous to, the installation. Information was not requested for state listed species. The survey consisted of approximately 50 questions in the following categories: (1) T&E management and compliance concerns, (2) training and testing restrictions/impacts due to T&E species, and (3) points-of-contact (Appendix A).

**Phase Two: Administration, Analysis, and Reporting.** In November 1996, ODEP transmitted the T&E survey package to MACOM Commanders directing distribution to the installations. The intent was to obtain a complete census. MACOMs distributed the package, consisting of the survey instructions, the survey instrument, a listing of species from the Federal Register, and a reference listing of species reported previously, to subordinate installations with a 45-day suspense. An accompanying memorandum suggested that recipients assemble a team of key personnel to fill out the survey. These key individuals might include personnel from the Directorate of Public Works (DPW) or equivalent, the Directorate of Plans and Training Mission (DPTM) or equivalent, and the Judge Advocate General (JAG) or compliance office that handles T&E issues. MACOMs received the completed returns and forwarded them to USACERL for compilation.

In February 1997, the TES Users Group provided input into the priorities for data analysis and data summaries. A preliminary report containing an analysis of the survey went to the Sponsor; Headquarters, Department of the Army (HQDA); and the MACOMs in April of 1997. That preliminary report provided answers to the top 40 questions agreed upon in the meeting.

This report provides a reorganization and further analysis of data presented in the preliminary report of April 1997. The tables in Chapters 3 through 7 provide the key analyses of particular interest to Army Headquarters and MACOMs for making decisions on T&E species management. The accompanying text highlights points of particular interest in the tables. Detailed information not suitable for inclusion in the body of the report is found in the Appendices.

## Scope

This survey was to be distributed to all Army installations with the potential for T&E species. With only a few known exceptions, all eligible sites<sup>1</sup> responded to the survey. The results can therefore be taken as a nearly complete census of Army installations in the United States.

## Mode of Technology Transfer

HQDA and MACOMs will be provided raw data resulting from this survey, in Excel v4.0 format, along with this report. This will provide the MACOMs with the capability to execute their own queries based on their needs and the ability to distribute the data MACOM-wide if desired.

## Updating of Data

The intent of the survey was to capture T&E data at the close of the 1996 fiscal year. Data available after that date, such as newly reported T&E species, will be reported in the 1997 survey. The data includes corrections to known errors through June 1997.

This report is the first in a series of three. The intended audience is HQDA and the MACOMs. The second report, titled *Threatened and Endangered Species on U.S. Army Installations: A MACOM Report*, (Schreiber, Shaw, and Hill 1997), provides HQDA and MACOM-level summaries, with installation profiles, specifying the installation's MACOM, county, point-of-contact, and a listing of all onsite and contiguous species by category, for each of the responding 201 installations. The third report, geared towards installation personnel, is titled *Installation Summaries from the 1996 Survey of Threatened and Endangered Species on Army Lands* (Schreiber, Shaw, and Hill 1997). It provides a brief overview of Army-wide and MACOM-wide trends and a listing of installations, species, and points-of-contact useful for installation-level coordination.

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<sup>1</sup> See page 11 for a discussion of some of the difficulties in defining an installation.

## 2 Definitions

Several acronyms and terms are used consistently throughout this document. These terms are defined below:

**Assessment** — An assessment is defined as any information prepared by or under the direction of the installation. It includes listed and proposed species and designated and proposed critical habitat that may be present on the installation. An assessment also evaluates the potential effects of military action on the species and habitat. An assessment also includes all the information that has been or will be used to assist in the consultation process with the Fish and Wildlife Service (FWS) or the National Marine Fisheries Service (NMFS).

**Category** — Species are divided into the following categories:

AMP	=	amphibian	BIR	=	bird
CLA	=	clam	CRU	=	crustacean
FIS	=	fish	INS	=	insect
MAM	=	mammal	PLA	=	plant
REP	=	reptile	SNA	=	snail
INV	=	other invertebrate			

**Distinct Species** — The term distinct species is synonymous with the term unique species. For example, the bald eagle is considered as one distinct or unique species, regardless of the number of installations on which it occurs. Distinct species may be calculated Army-wide, or within individual MACOMs. In either case, a particular species is counted only once.

### Federal Status

- E — Federally Endangered
- T — Federally Threatened
- PE — Federally Proposed as Endangered
- PT — Federally Proposed as Threatened
- C — Candidate species for Federal listing

**Impact** — An impact is the effect a training or testing restriction has on the ability of a unit to train tasks to doctrinal standard or the alterations that a unit must accomplish to overcome the training restrictions in order to conduct a training event on the installation.

**Installation** — The term installation includes active military installations, state National Guard Bureau (NGB) offices, NGB training sites, and regional support centers for the Army Reserve. Analyses in this report do not make a distinction between these types of locations. In some cases it was difficult to define "installation" data because some NGB state offices, for example, reported on a state-wide basis, while others reported for each training site in the state.

**Occurrence** — An occurrence is a record of a species. A record refers to each time a species is recorded as being present on an installation and is also synonymous with the term record in terms of the database. For example, if a bald eagle occurs on five installations it is recorded as five occurrences.

**Restriction** — A restriction is defined as any limitation on mission training events or testing activities due to a legally binding requirement to protect a species. Examples of such requirements include Biological Opinions, endangered species management plans (ESMPs), memoranda of understanding, conservation agreements, and installation policies.

**S/A** — Similarity of Appearance. Certain species that closely resemble T&E species may be given the Federal status of the species they resemble. Similarity of appearance species are denoted with a T(S/A) or E(S/A). However, no distinction is made between S/A species and other T&E species.

#### Species Location

*Both* — Species known to occur both onsite and contiguous to the installation.

*Contiguous* — Species known to occupy, or otherwise use, habitat adjacent to an installation, which may be affected by installation military activities and land management practices.

*Onsite* — Species that have been documented within the boundaries of the installation.

**T&E** — The term T&E includes only Federally Threatened and Endangered species. These two statuses include S/A species.

TEP — The term TEP includes all Federally Threatened, Endangered, Proposed Threatened, and Proposed Endangered species on Army lands but does not include Candidate species.

TEPC — The term TEPC includes all Federally Threatened, Endangered, Proposed Threatened, Proposed Endangered, and Candidate species on Army lands. Similarity of Appearance species are included. Subsequent analyses that use the term TEPC refer to the status of all species.

## 3 Survey Response

### General

Of the 201 completed surveys, 22% were returned by the suspense date, mid-January 1997. A cumulative total of 66% of the surveys had been returned by the end of the following week, 75% within two weeks, 88% within three weeks, and the remainder within 1 month of the suspense date. Overall, 62% of the returned surveys were in electronic format.

Twenty-five percent of the species records reported were not within the scope of the survey; they were not TEPC species as defined by the Federal Register current as of the survey date. These species were not incorporated into the final database files. In addition, the 27 species occurrences that were said to have critical habitat designated were checked against the Federal Register. Of these, only five distinct species were found to have critical habitat. Those records for which critical habitat was not confirmed in the Federal Register were changed in the database.

## MACOM

Two hundred and one installations responded to the 1996 TES species survey. Respondents came from ten MACOMS (Table 3-1), and included installations, state NGB offices and training sites, and regional support centers of the Army Reserve. Two MACOMs (NGB and AMC) together accounted for 64% of the responses.

**Table 3-1. Installations responding to the survey.**

MACOM	Number of installations	Percent of total installations
AMC	48	24%
FORSCOM	20	10%
MDW	6	3%
MEDCOM	4	2%
MTMC	3	1%
NGB	80	40%
TRADOC	16	8%
USARC	14	7%
USARPAC	9	4%
USMA	1	<1%
TOTAL	201	100%

## State

The survey represents responses from 46 states (Table 3-2). Puerto Rico (PR), the Virgin Islands (VI), District of Columbia (DC), and service centers serving installations in multiple states (coded as XX) were also included. Hawaii had the largest number of installations responding to the survey with 16, followed by Virginia with 10.

**Table 3-2. Installations responding to survey, by state.**

State	Number of installations						
AK	3	IL	5	ND	2	SD	0
AL	6	IN	4	NE	5	TN	7
AR	3	KS	3	NH	2	TX	7
AZ	3	KY	6	NJ	6	UT	4
CA	9	LA	3	NM	2	VA	10
CO	4	MA	2	NV	3	VI	1
CT	0	MD	6	NY	8	VT	2
DC	2	ME	7	OH	2	WA	4
DE	1	MI	2	OK	3	WI	3
FL	2	MN	2	OR	4	WV	0
GA	6	MO	7	PA	4	WY	1
HI	16	MS	2	PR	1	XX*	8
IA	2	MT	0	RI	1		
ID	1	NC	2	SC	2		

\* Represents service centers serving multiple installations, some of which may be in different states.

## U.S. Fish and Wildlife Regions

Installations responding to the survey were located in all seven of the FWS administrative regions (Table 3-3). Not surprisingly, the largest number of installations was in Region 5, which has the most states, and the fewest in Region 7, which consists of just the state of Alaska.

**Table 3-3. Installations responding to the survey, by FWS region.**

FWS Region	Number of installations in region
Region 1 CA, HI, ID, NV, OR, WA	37
Region 2 AZ, NM, OK, TX	15
Region 3 IL, IN, IA, MI, MN, MO, OH, WI	28
Region 4 AL, AR, LA, GA, KY, MS, NC, SC, FL, TN, PR, VI	40
Region 5 CT, DE, DC, ME, MD, MA, NH, NJ, NY, PA, RI, VT, VA, WV	51
Region 6 CO, KS, MT, NE, ND, SD, UT, WY	19
Region 7 AK	3
NA (multiple states)	8
Total number of installations	201

## 4 Species Occurrences

### Total Occurrences

The Army has 391 total onsite TEPC species occurrences, and of these, 321 (82%) are onsite T&E species occurrences (Table 4-1). USARPAC and NGB account for the largest number of onsite T&E occurrences with 30% and 26%, respectively. AMC, FORSCOM, and TRADOC each account for 12% of the species, with the remaining MACOMS having few species.

**Table 4-1. Number and percent of onsite T&E species occurrences, by MACOM.**

MACOM	Number of onsite TEPC species occurrences	Number of onsite T&E species occurrences	Percent of onsite T&E species occurrences
AMC	41	39	12%
FORSCOM	46	38	12%
MDW	4	4	1%
MEDCOM	2	2	1%
MTMC	5	5	1%
NGB	88	82	26%
TRADOC	47	38	12%
USARC	17	14	4%
USARPAC	139	97	30%
USMA	2	2	1%
TOTAL	391	321	100%

Of the 201 installations, 105 (52%) have one or more onsite TEPC species, 84 (42%) have no TEPC species, and 12 (6%) have only contiguous species (Figure 4-1). Of the 105 installations with one or more onsite TEPC species, 100 (95%) have onsite T&E species.

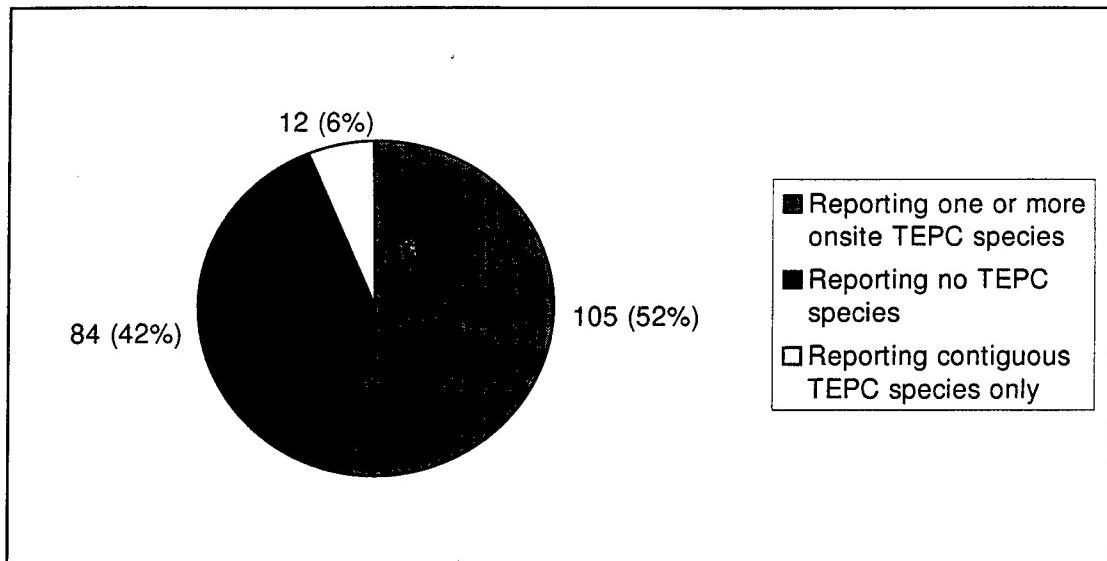


Figure 4-1. Number and percent of installations reporting one or more onsite TEPC, no TEPC, and contiguous TEPC species.

Table 4-2 shows the distribution of installations with and without onsite TEPC species<sup>2</sup> within each MACOM. The last column of the table shows the percent of each MACOM's installations that have TEPC species. The range is from 25% (MEDCOM) to 100% (USARPAC, USMA). Of the 201 installations, 52% have onsite TEPC.

Table 4-2. Number of installations with no TEPC species and with onsite TEPC species, by MACOM.

MACOM	Number of installations within each MACOM	Number of installations with no TEPC species	Number of installations with onsite TEPC species	Percent of each MACOM's installations that have TEPC species
AMC	48	20	25	52%
FORSCOM	20	8	12	60%
MDW	6	4	2	33%
MEDCOM	4	3	1	25%
MTMC	3	2	1	33%
NGB	80	37	34	43%
TRADOC	16	2	14	88%
USARC	14	8	6	43%
USARPAC	9	0	9	100%
USMA	1	0	1	100%
TOTAL	201	84	105	52%

<sup>2</sup> The number of installations with no species and the number of installations with onsite TEPC species will not add up to the total number of installations because the 12 installations with only contiguous TEPC species (Figure 4-1) are not included in the analysis.

Many of the Army's TEPC species occur on multiple installations. Seven onsite TEPC species occur on five or more installations: the Bald Eagle, American Peregrine Falcon, American Alligator, Peregrine Falcon, Red-cockaded Woodpecker, Hawaiian Hoary Bat, and the Gray Bat (Table 4-3). Twenty-four onsite TEPC species occur on 3 installations, 57 onsite TEPC species occur on only 2 installations, and 118 onsite TEPC species occur on only 1 installation. Refer to Appendix B for a listing of the number of installations on which each species occurs.

**Table 4-3. TEPC species that occur on five or more installations.**

Scientific name	Common name	Federal Status	Category	Number of installations the species occurs on
<i>Haliaeetus leucocephalus</i>	Bald Eagle	T	BIR	51
<i>Falco peregrinus anatum</i>	American Peregrine Falcon	E	BIR	11
<i>Alligator mississippiensis</i>	American Alligator	T(S/A)	REP	9
<i>Falco peregrinus</i>	Peregrine Falcon	E(S/A)	BIR	9
<i>Picoides borealis</i>	Red-cockaded Woodpecker	E	BIR	9
<i>Lasiurus cinereus semotus</i>	Hawaiian Hoary Bat	E	MAM	8
<i>Myotis griseescens</i>	Gray Bat	E	MAM	5

Of the ten installations with the greatest number of onsite TEPC (Table 4-4), five are USARPAC installations. Kawaihoa Training Area (TA) and Schofield Barracks have the most species — 38 each. For a listing of the number of onsite TEPC for each installation, refer to Appendix C.

**Table 4-4. The top ten installations in terms of the number of onsite TEPC species.**

MACOM	Installation	Total number of onsite TEPC species
USARPAC	Kawaihoa TA	38
USARPAC	Schofield Barracks Military Reservation	38
USARPAC	Makua Military Reservation	28
USARPAC	Pohakuloa TA	17
NGB	HI-ARNG, Keamuku LTA	15
NGB	HI-ARNG, Pu'U Pa LTA	10
TRADOC	Fort Huachuca	9
NGB	FL-ARNG, Camp Blanding TS	8
USARPAC	Dillingham TA	8
USARC	Fort Hunter Liggett	8

## Distinct Onsite Species

The Army has 199 distinct onsite TEPC species,<sup>3</sup> and of these, 151 (76%) are onsite T&E species. Refer to Appendix B for a complete listing of the distinct onsite TEPC species, and to Appendix D for a listing of these species by installation.

Table 4-5 shows the number of distinct species within each MACOM. Because the numbers represent distinct species within each MACOM, their sum will not equal the total for distinct species Army-wide.

**Table 4-5. Number of distinct onsite species and T&E species within each MACOM.**

MACOM	Number of distinct onsite TEPC species within each MACOM	Number of distinct onsite T&E species within each MACOM
AMC	20	18
FORSCOM	33	26
MDW	3	3
MEDCOM	2	2
MTMC	5	5
NGB	57	51
TRADOC	33	25
USARC	13	8
USARPAC	92	67
USMA	2	1

## Federal Status

Table 4-6 lists the onsite TEPC occurrences and distinct onsite TEPC by Federal status. Of the 391 onsite occurrences reported, more than half (59%) are Federally Endangered. Together, Threatened and Endangered species make up 82% of total onsite TEPC occurrences. There are 199 distinct onsite TEPC. As with total occurrences, the majority (63%) are Federally Endangered.

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<sup>3</sup> The 151 distinct onsite T&E species exclude the Northern Spotted Owl, which has critical habitat designated on Fort Lewis, but is not found on the installation, and Camp Blanding's Florida Panther, for which onsite/contiguous was not specified.

**Table 4-6. Number and percent of total onsite TEPC occurrences and distinct onsite TEPC, by Federal status.**

Federal Status	Number of onsite TEPC occurrences by Federal Status	Percentage of onsite TEPC occurrences by Federal Status	Number of distinct onsite TEPC by Federal Status	Percent of distinct onsite TEPC by Federal Status
Endangered	231	59%	126	63%
Threatened	90	23%	25	13%
Proposed Endangered	47	12%	29	15%
Proposed Threatened	1	<1%	1	1%
Candidate	22	6%	18	9%
Total	391	100%	199	100%

Table 4-7 shows the number of installations with onsite TEPC by Federal status.<sup>4</sup> The last column indicates the percentage of the 201 installations with species of a particular Federal status. For example, 36% of installations have at least one onsite Endangered species, and 32% have at least one onsite Threatened species.<sup>5</sup>

**Table 4-7. Installations reporting one or more onsite TEPC, by Federal status.**

Federal Status	Number of installations reporting one or more onsite TEPC by federal status	Percent of installations with one or more onsite TEPC by Federal status
Endangered	73	36%
Threatened	65	32%
Proposed Endangered	13	6%
Proposed Threatened	1	<1%
Candidate	14	7%

Table 4-8 shows total onsite TEPC occurrences by Federal status and MACOM. Of all Federally Endangered species occurrences, over 40% (96 out of 231) occur on USARPAC lands. Almost all of the Proposed Endangered species occurrences occur on USARPAC lands as well.

<sup>4</sup> Note that these numbers cannot be summed because an installation may have species in multiple Federal status categories.

<sup>5</sup> Since it is possible for an installation to be counted as having both Threatened and Endangered species, these percentages cannot be summed to show total percent of installations with TEPC.

**Table 4-8. Number of onsite TEPC occurrences, by Federal status and MACOM.**

<b>MACOM</b>	<b>E</b>	<b>T</b>	<b>PE</b>	<b>PT</b>	<b>C</b>	<b>Total number of onsite TEPC occurrences by MACOM</b>
AMC	18	21	1	0	1	41
FORSCOM	23	15	0	0	8	46
MDW	0	4	0	0	0	4
MEDCOM	2	0	0	0	0	2
MTMC	3	2	0	0	0	5
NGB	57	25	2	1	3	88
TRADOC	22	16	4	0	5	47
USARC	9	5	1	0	2	17
USARPAC	96	1	39	0	3	139
USMA	1	1	0	0	0	2
<b>TOTAL</b>	<b>231</b>	<b>90</b>	<b>47</b>	<b>1</b>	<b>22</b>	<b>391</b>

AMC and MDW are the only MACOMs with more species in the Threatened category than the Endangered category. Onsite Candidate species make up relatively small numbers across MACOMS, and only one MACOM (NGB) has a Proposed Threatened species.

In Table 4-9, distinct onsite species are shown by Federal status and MACOM. Distinct species in the table cannot be summed for an Army-wide total because the distinct species for each MACOM are calculated separately, and some MACOMs may have the same distinct species.

**Table 4-9. Number of distinct onsite species, by Federal status and MACOM.**

<b>MACOM</b>	<b>E</b>	<b>T</b>	<b>PE</b>	<b>PT</b>	<b>C</b>	<b>Distinct onsite TEPC by MACOM</b>
AMC	14	4	1	0	1	20
FORSCOM	18	8	0	0	7	33
MDW	0	3	0	0	0	3
MEDCOM	2	0	0	0	0	2
MTMC	3	2	0	0	0	5
NGB	38	13	2	1	3	57
TRADOC	18	7	3	0	5	33
USARC	8	2	1	0	2	13
USARPAC	66	1	24	0	1	92
USMA	1	1	0	0	0	2

It is interesting to note that there are only four distinct Threatened species on AMC lands (Table 4-9), but 21 total occurrences of Threatened species (Table 4-8). This means that the same species are occurring on many installations within the MACOM. The data shows that 15 of the 21 Threatened species occurrences on AMC are of the Bald Eagle (i.e., 15 installations on AMC have the Bald Eagle).

Somewhat the opposite pattern is seen with Endangered species on USARPAC installations. Here there are 66 distinct Endangered species out of 96 Endangered species occurrences. This means that a relatively large proportion of these species occur on only one installation.

### **Category of Species**

Table 4-10 shows the number and percent of the distinct onsite TEPC species and the distinct T&E species by category. More than half (58%) of distinct onsite TEPC are plants. The next highest category of species is birds at 17%, followed by snails at 7%. The remaining categories contain a small number of distinct species. The distribution of onsite T&E species categories is very similar to that of onsite TEPC species categories.

**Table 4-10. Number and percent of distinct onsite TEPC and T&E species, by category.**

Category	Number of distinct onsite TEPC species by category	Percent of distinct onsite TEPC species by category	Number of distinct onsite T&E species by category	Percent of distinct onsite T&E species by category
Amphibian	4	2%	1	1%
Bird	33	17%	30	20%
Clam	1	1%	1	1%
Crustacean	2	14%	2	1%
Fish	6	3%	3	2%
Insect	6	3%	5	3%
Mammal	10	5%	8	5%
Plant	115	58%	82	54%
Reptile	8	4%	6	4%
Snail	14	7%	13	9%
Total	199	100%	151	100%

In Table 4-11, the number of distinct onsite TEPC are shown for each MACOM by category of species. Note the large number of distinct species found on USARPAC installations, 73% of which are plants. USARPAC installations are located on Hawaii, which has a large number of plants that are Federally Endangered. USARPAC also has a large number of snail species.

**Table 4-11. Distinct onsite TEPC, by category and MACOM.**

MACOM	A M P	B I R	C L A	C R U	F I S	I N S	M A M	P L A	R E P	S N A	Distinct onsite TEPC by MACOM
AMC		5	1	1		1	2	6	3	1	20
FORSCOM		12			5	1	1	11	3		33
MDW		1						2			3
MEDCOM		2									2
MTMC		2					1	1	1		5
NGB	1	20			1		3	5	23	4	57
TRADOC	2	9				1	2	3	13	2	1
USARC	3	4			1		1	1	3		13
USARPAC		11					2	67		12	92
USMA		1			1						2

Table 4-12 compares the number of distinct plants and animals found on each MACOM. For most MACOMS the percentage of plants is 20 to 40% of the total species. USARPAC, with 73% plants, is an exception. MDW also has a high percentage of plants, but since there are only three distinct species for the MACOM, this is not very meaningful.

**Table 4-12. Distinct onsite TEPC, by plants/animals and MACOM.**

MACOM	Plants	Animals	Number of distinct onsite TEPC occurrences	Percentage of plants out of distinct species on MACOM
AMC	6	14	20	30%
FORSCOM	11	22	33	33%
MDW	2	1	3	67%
MEDCOM	0	2	2	0%
MTMC	1	4	5	20%
NGB	23	34	57	40%
TRADOC	13	20	33	39%
USARC	3	10	13	23%
USARPAC	67	25	92	73%
USMA	0	2	2	0%

## 5 Management and Compliance Concerns for Onsite Species

### Critical Habitat

Of the 201 installations surveyed, 100 (50%) have onsite T&E species. Of these 100 installations, 5 have onsite T&E with critical habitat. In addition, one installation, Fort Lewis, has critical habitat designated, although the species is not presently either on or contiguous to the installation. These six installations with critical habitat are 3% of all installations (Table 5-1) and 6% of installations with onsite T&E. See Appendix E for a listing of installations with onsite T&E species with critical habitat. Of the 321 onsite T&E species occurrences, the vast majority (96%) have no critical habitat (Table 5-2).

**Table 5-1. Number and percent of installations with onsite T&E species and those with critical habitat.**

Installations	Number of installations	Percent of all installations
Installations with critical habitat	6	3%
Installations without critical habitat	195	97%
Total number of installations	201	100%

**Table 5-2. Number and percent of onsite T&E species occurrences for which critical habitat has been designated.**

Species occurrences	Number of onsite T&E species occurrences	Percent of onsite T&E species occurrences
With critical habitat	6	2%
With no critical habitat	308	96%
With no response	7	2%
Total number of onsite T&E species occurrences	321	100%

Table 5-3 shows the total number of installations, reported by MACOM, that have onsite T&E species with critical habitat. Refer to Appendix E for a listing of onsite T&E species with critical habitat.

**Table 5-3. Number of installations, by MACOM, that have one or more onsite T&E species with critical habitat.**

MACOM	Number of installations reporting by MACOM	Number of installations that have one or more onsite T&E species with critical habitat
AMC	48	0
FORSCOM	20	2
MDW	6	0
MEDCOM	4	0
MTMC	3	0
NGB	80	2
TRADOC	16	1
USARC	14	0
USARPAC	9	1
USMA	1	0
<b>TOTAL</b>	<b>201</b>	<b>6</b>

Five distinct species make up the six species occurrences with critical habitat. Table 5-4 shows these species by category. Four of the six species occurrences are birds, one of which, the Mexican Spotted Owl, occurs on two installations. For a listing of species with critical habitat and the installations on which they occur, see Appendix E.

**Table 5-4. Onsite T&E species occurrences with critical habitat, by category.**

Category	Number of onsite T&E species occurrences	Total onsite T&E species occurrences with critical habitat	Distinct onsite T&E species with critical habitat
Bird	133	2 1 1	(Strix occidentalis lucida) Mexican Spotted Owl (Strix occidentalis caurina) Northern Spotted Owl (Loxioides bailleui) Palila
Insect	7	1	(Speyeria zerene hippolyta) Oregon Silverspot Butterfly
Reptile	16	1	(Gopherus agassizii) Desert Tortoise
Total	321	6	5 distinct species

## Recovery

The following information pertains to Federally listed species and is based on information included in the recovery plan for the species, or reflected in FWS or NMFS biological opinions. Installations were asked to select the statement that best reflects the importance of the installation in the recovery of this species. The definitions are as follows:

*Very important.* Installation lands are officially recognized by the FWS or NMFS as playing, or having the potential of playing, a key role in the eventual recovery of this species.

*Moderately important.* Installation lands are officially recognized by the FWS or NMFS as playing, or having the potential to play, an important but not essential role in the recovery of this species.

*Not important.* The FWS or NMFS has determined that installation lands do not play, nor have the potential to play, a significant role in the eventual recovery of this species.

*Undetermined importance.* The importance of installation lands in the recovery of this species has yet to be determined by the FWS or NMFS.

There was a high non-response rate on this question; 17%. This "no response" could indicate that (1) there was no recovery plan available for the species, (2) the installation did not have a copy of the recovery plan, (3) the installation and/or the FWS/NMFS was unaware of or uncertain as to the installation's importance for the species, or (4) the installation might not have been mentioned in the recovery plan.

Table 5-5 shows the importance of installations in the recovery of onsite T&E species. For a nearly equal number of species occurrences the installation was called "very important" (30%) or of "undetermined importance" (31%). The installation was said to be "not important" in the recovery of only 9% of the species. Refer to Appendix F for a listing of the 33 installations designated "very important" in the recovery of at least one species. In addition, Appendix G lists the 96 species occurrences for which the installation was said to be "very important" in species recovery, by MACOM and installation.

**Table 5-5. Importance of the installation in the recovery of particular onsite T&E species.**

<b>Importance value of installation in the recovery of the species</b>	<b>Total onsite T&amp;E species occurrences by importance of installation for species recovery</b>	<b>Percent of onsite T&amp;E species occurrences by importance of installation for species recovery</b>
Very important	96	30%
Moderately important	41	13%
Not important	31	9%
Undetermined importance	98	31%
No response	56	17%
<b>Total onsite T&amp;E species occurrences</b>	<b>321</b>	<b>100%</b>

Table 5-6 shows the importance of Army lands to T&E recovery, by species category. This is shown first for total species occurrences and then for distinct species. The data indicates that Army lands are especially important to the recovery of plants and birds, constituting 87% of both total onsite T&E species occurrences and distinct T&E that fall into the "very important" category. Refer to Appendix G for a complete listing of these species.

**Table 5-6. Number and percent of species for which installation is "very important" to recovery, by category.**

<b>Category</b>	<b>Number of onsite T&amp;E species for which installation is "very important" to species recovery</b>	<b>Percent of onsite T&amp;E species for which installation is "very important" to species recovery</b>	<b>Number of distinct onsite T&amp;E species for which installation is "very important" to species recovery</b>	<b>Percent of distinct onsite T&amp;E species for which installation is "very important" to species recovery</b>
Amphibians	0	0%	0	0%
Birds	29	30%	15	24%
Clams	0	0%	0	0%
Crustaceans	1	1%	1	2%
Fish	0	0%	0	0%
Insects	3	3%	3	5%
Mammals	6	6%	2	3%
Plants	55	57%	39	63%
Reptiles	1	1%	1	2%
Snails	1	1%	1	2%
<b>Total</b>	<b>96</b>	<b>100%</b>	<b>62</b>	<b>100%</b>

## Assessments, Findings, and Opinions

### **Assessments**

Assessments were defined in the survey's glossary as including biological evaluations and biological assessments.<sup>6</sup> The 321 total onsite T&E species occurrences include: 215 occurrences with no assessments, 95 occurrences with a completed assessment, and 11 occurrences with no response (Figure 5-1). The 95 onsite T&E species occurrences with assessments are actually 54 distinct species, and account for 306 individual assessments. The average number of assessments for the 321 onsite species occurrences is 0.95, or almost one assessment per species occurrence (Table 5-7). However, 145 of the total 306 assessments (45%) were from four species on Fort Bragg; this unusually high number of assessments inflates the average. See Appendix H for a complete listing of species for which an assessment has been completed and the installation on which each occurs.

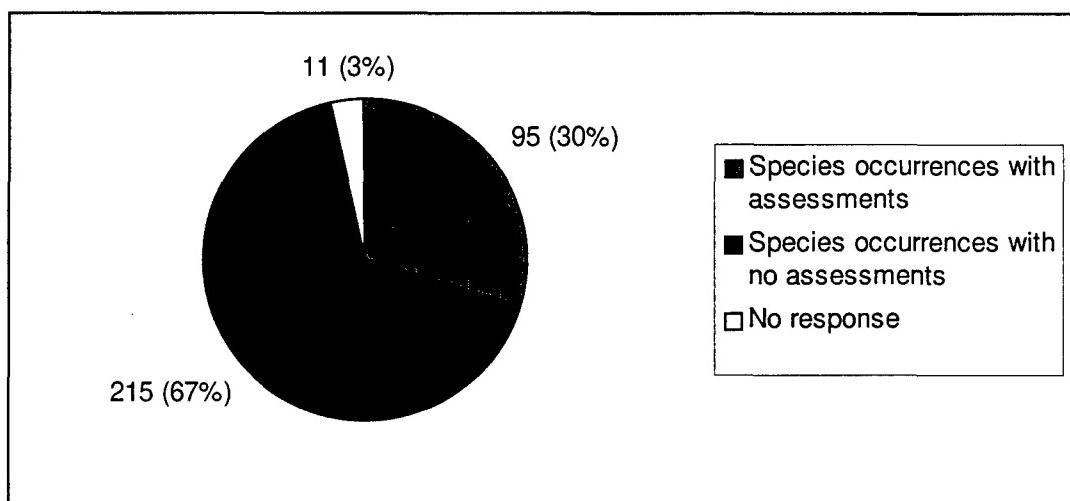


Figure 5-1. Number and percent of assessments completed for onsite T&E species occurrences.

Table 5-7. The average number of assessments per onsite T&E species.

Total number of assessments for onsite T&E species	306
Total number of onsite T&E species occurrences	321
Number of assessments/number of species occurrences for onsite T&E species	0.95

<sup>6</sup> See Chapter 2 for complete definition of assessments.

### ***Findings***

***May affect/No affect.*** A planned action resulting in a “may affect” determination requires the initiation of formal consultation with the FWS. Some respondents may have been confused about the time frame of this question. The survey question referred to assessments completed “to date,” but was not explicit about what that meant. Some installations may have interpreted this as meaning for the past calendar year or fiscal year, while others included all assessments ever completed.

The Army completed 306 individual assessments for onsite T&E species, and of these, 216 (71%) resulted in a “no affect” finding and 55 (18%) resulted in a “may affect” finding (Table 5-8). One installation, Fort Bragg, reported 145 (47%) of the 306 individual assessments and 11 (20%) of the 55 “may affect” findings. There were also 35 assessments for which installations did not provide information on “no affect/may affect” determinations. Refer to Appendix H for additional information on specific findings and the onsite T&E species associated with each.

**Table 5-8. Number and percent of completed onsite T&E species assessments resulting in a “may affect” finding.**

Assessment results	Number of individual assessments done for onsite T&E species	Percent of individual assessments done for onsite T&E species
Total number of assessments resulting in “May Affect” finding	55	18%
Total number of assessments resulting in “No Affect” finding	216	71%
No Response*	35	11%
Total number of individual assessments done for onsite T&E species	306	100%

\* “No affect/may affect” question was not answered.

### ***Biological Opinions***

Of the 321 onsite T&E species occurrences, 45 (14%) have had a Biological Opinion (Figure 5-2). The 45 onsite T&E species occurrences with Biological Opinions include: 25 (56%) species occurrences with Biological Opinions implemented, 11 (24%) species occurrences with different implementation statuses for multiple Biological Opinions issued, and 7 (16%) species occurrences currently under consultation (Table 5-9). None of the Biological Opinions have had implementation

abandoned. Refer to Appendix H for a complete listing of the onsite T&E species for which a Biological Opinion has been issued and the implementation status associated with each.

Several respondents misinterpreted this question. This is evident because 23 species with no Biological Opinions were reported as being in some stage of implementation.

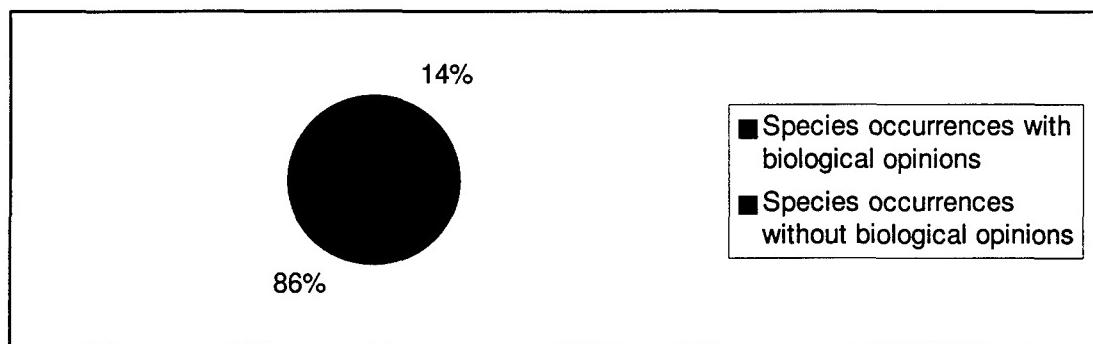


Figure 5-2. Number of onsite species occurrences with Biological Opinions.

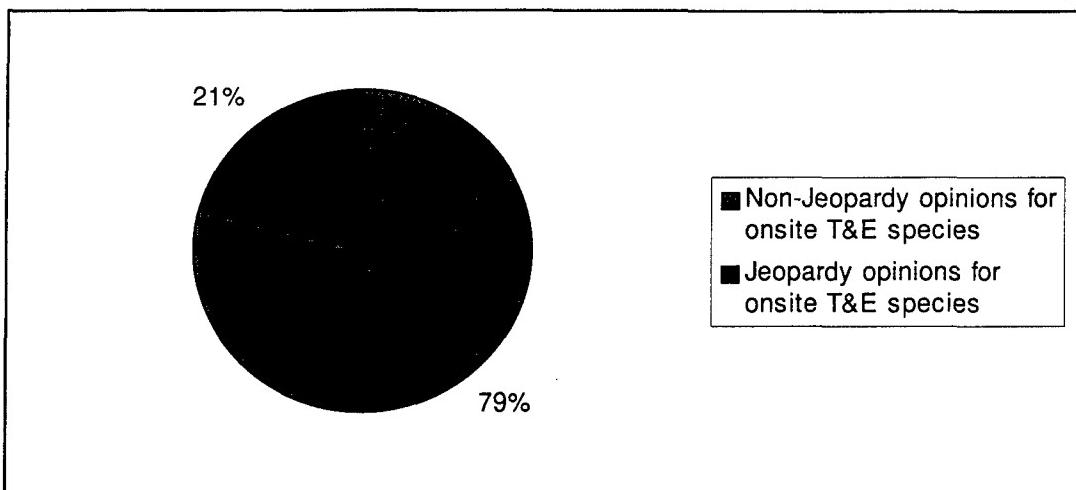
Table 5-9. Implementation status for onsite T&E species.

Implementation status for onsite T&E species for which a Biological Opinion has been issued	Number of onsite T&E species by implementation status	Percent of onsite T&E species by implementation status
Implemented	25	56%
On-going consultation	7	16%
Abandoned	0	0%
Combination of the above*	11	24%
No response	2	4%
Total number of species for which a biological opinion has been issued	45	100%

\* In these cases, the species had several biological opinions with different implementation statuses.

**Jeopardy/Non-Jeopardy.** Formal consultations with the USFWS for onsite T&E species resulted in 75 Non-Jeopardy Opinions, and 20 Jeopardy Opinions (Figure 5-3). The 20 formal consultations that resulted in Jeopardy Opinions were from 9

distinct species and occurred on 7 installations. Refer to Appendix H for a complete listing of species with Jeopardy and Non-Jeopardy Opinions.



**Figure 5-3. Number and percent of formal consultations for onsite T&E species.**

## Endangered Species Management Plans

Of the 391 onsite TEPC species occurrences, only 369 were considered "eligible" to have an ESMP (Table 5-10). The term "eligible" refers to Federally Threatened, Endangered, and Proposed species (TEP), and assumes that Candidate species should not have an ESMP.

**Table 5-10. Number of species occurrences eligible for an ESMP.**

Eligibility	Number of onsite species occurrences	Percent of onsite species occurrences
Total number of eligible onsite TEP occurrences	369	94%
Total number of non-eligible (Candidate) species occurrences	22	6%
Total onsite TEPC species occurrences	391	100%

Of the 369 "eligible" onsite TEP species occurrences, 35 (10%) have a completed ESMP, 219 (59%) have an ESMP that is currently under preparation or in process, 103 (28%) have not yet initiated an ESMP, and 12 (3%) had no response (Table 5-11). Refer to Appendix I for a listing of the total onsite TEP species occurrences for which an ESMP has been completed or is under preparation.

**Table 5-11. Number and percent of eligible species for which an ESMP has been prepared.**

<b>Category of response</b>	<b>Number of onsite TEP species occurrences</b>	<b>Percent of onsite TEP species occurrences</b>
Approved ESMP has been completed	35	10%
ESMP is currently under preparation or in process	219	59%
ESMP has not been initiated	103	28%
No response	12	3%
Total number of eligible onsite TEP occurrences*	369	100%

\* Listed or proposed species and critical habitat only.

## Total Expenditures

Survey recipients were instructed to report T&E expenditures according to the FWS “Supplemental Guidance for Reporting Expenditures for the Conservation of Endangered and Threatened Species” provided in Appendix J. FORSCOM and TRADOC together accounted for 86% of the Army’s total T&E expenditures (Table 5-12), with the remaining MACOMs accounting for 1 to 7% of the expenditures. Also shown are average expenditures per species occurrence by MACOM. USARPAC, with the largest number of species of any MACOM, has one of the lowest average expenditures per species. Appendix K shows how expenditures are allocated to each distinct species on the MACOMs.

**Table 5-12. Total expenditures for onsite T&E species occurrences, by MACOM.**

<b>MACOM</b>	<b>Expenditures for onsite T&amp;E species</b>	<b>Percentage of expenditures for onsite T&amp;E species</b>	<b>Number of onsite T&amp;E species occurrences</b>	<b>Average expenditures for onsite T&amp;E species occurrences</b>
AMC	\$258,340	3.0%	39	\$6,624
FORSCOM	\$4,277,742	45.0%	38	\$112,572
MDW	\$14,000	<1%	4	\$3,500
MEDCOM	\$70,000	1.0%	2	\$35,000
MTMC	\$4,000	<1%	5	\$800
NGB	\$611,920	7.0%	82	\$7,462
TRADOC	\$3,880,331	41.0%	38	\$102,114
USARC	\$258,068	3.0%	14	\$18,433
USARPAC	\$94,451	1.0%	97	\$974
USMA	\$7,200	<1%	2	\$3,600
<b>TOTAL</b>	<b>\$9,476,052</b>	<b>100%</b>	<b>321</b>	<b>\$29,520</b>

The total expenditures for onsite Endangered species was \$8,270K, while \$1,206K went for onsite Threatened species (Table 5-13).

**Table 5-13. Total expenditures for onsite T&E species, by Federal status.**

Federal Status	Expenditures for onsite T&E species	Percent of expenditures for onsite T&E species
Endangered	\$8,269,906	87%
Threatened	\$1,206,146	13%
Total	\$9,476,052	100%

The average expenditure for managing a distinct onsite T&E species was \$63K.<sup>7</sup> By category, birds received by far the largest proportion of the T&E expenditures. Plants, with more than twice the number of distinct species as birds (Table 4-10), received only 7% of the spending (Table 5-14). It is important to note that approximately 75% of the \$7,503K spent for birds was for the Red-cockaded Woodpecker, and 45% of the \$459K spent for mammals was on the San Joaquin Kit Fox (Table 5-15).

**Table 5-14. Total expenditure and average expenditure for onsite T&E species, by category.**

Category	Expenditures for onsite T&E species	Percent of expenditures for onsite T&E species	Number of distinct onsite T&E species	Average expenditures for distinct onsite T&E species
Amphibian	\$2,500	<1%	1	\$2,500
Bird	\$7,503,317	79%	30	\$250,111
Clam	\$150	<1%	1	\$150
Crustacean	\$97,490	1%	2	\$48,745
Fish	\$9,960	<1%	3	\$3,320
Insect	\$279,559	3%	5	\$55,912
Mammal	\$459,300	5%	8	\$57,413
Plant	\$617,770	7%	82	\$7,534
Reptile	\$506,006	5%	6	\$84,334
Total	\$9,476,052	100%	151	\$62,755

<sup>7</sup> This means the average cost for managing a given species wherever it occurs Army-wide.

The top ten onsite T&E species in terms of expenditures include: 5 birds, 2 reptiles, 2 mammals, and 1 plant (Table 5-15). This listing includes all onsite T&E species with more than \$100K in costs.

**Table 5-15. The top ten onsite T&E species in terms of expenditures.**

#	Scientific Name	Common Name	Cost
1	<i>PICOIDES BOREALIS</i>	WOODPECKER, RED-COCKADED	\$5,679,533
2	<i>VIREO ATRICAPILLUS</i>	VIREO, BLACK-CAPPED	\$641,000
3	<i>DENDROICA CHRYSOPARIA</i>	WARBLER, GOLDEN-CHEEKED	\$499,000
4	<i>HALIAEETUS LEUCOCEPHALUS</i>	EAGLE, BALD	\$360,139
5	<i>GOPHERUS AGASSIZII</i>	TORTOISE, DESERT (includes Sonoran pop)	\$354,211
6	<i>VULPES MACROTIS MUTICA</i>	FOX, SAN JOAQUIN KIT	\$206,500
7	<i>MYOTIS GRISESCENS</i>	BAT, GRAY	\$163,300
8	<i>STRIX OCCIDENTALIS LUCIDA</i>	OWL, MEXICAN SPOTTED	\$161,000
9	<i>GOPHERUS POLYPHEMUS</i>	TORTOISE, GOPHER	\$150,000
10	<i>LYSIMACHIA ASPERULAefolia</i>	LOOSESTRIFE, ROUGH LEAVED	\$105,756

The top ten installations in terms of overall expenditures for onsite T&E species include: 5 FORSCOM installations, 3 TRADOC installations, and 2 NGB installations (Table 5-16). Refer to Appendix L for a listing of all installations that received money for onsite T&E species.

**Table 5-16. The top ten installations in terms of expenditures and the number of onsite T&E species for which the money was allocated.**

#	MACOM	Installation	Cost	Number of onsite T&E species for which money was allocated
1	TRADOC	FT BENNING	\$2,867,450	5
2	FORSCOM	FT BRAGG	\$1,479,122	5
3	FORSCOM	FT HOOD	\$990,000	2
4	FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	\$918,009	4
5	FORSCOM	FT POLK	\$453,000	1
6	TRADOC	FT JACKSON	\$299,680	3
7	FORSCOM	FT IRWIN	\$295,211	1
8	NGB	CA-ARNG, CAMP ROBERTS	\$174,000	2
9	NGB	MS-ARNG, CAMP SHELBY	\$170,000	2
10	TRADOC	FT HUACHUCA	\$159,500	2

## 6 Readiness

### Restrictions

Installations responded to a series of readiness questions on species causing restrictions to testing or training. Only those installations identified by MACOMs as having training or testing are referred to in this chapter. Each restriction record relates to one restriction for one species on a particular installation. Multiple restrictions for a given species were possible.

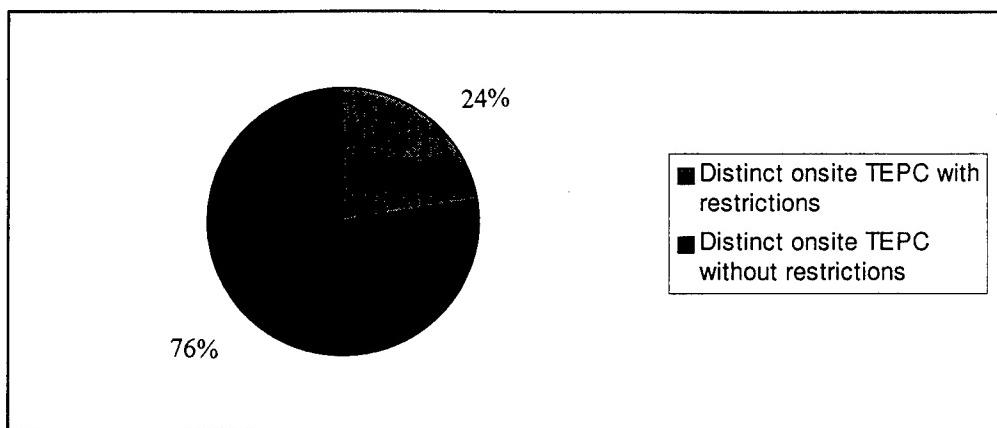
Fort Bragg reported five species causing restrictions, but did not provide any information about the restrictions themselves. Four of these species were not reported by other installations as causing restrictions. If we added these to the number of distinct species causing restrictions the total would be 49. It is known that in Fiscal Year 1995 Fort Bragg reported a total of 55 restriction records. Of these, 42 (76%) were due to the Red-cockaded Woodpecker, and 13 (24%) were due to unspecified Endangered plants. Complete 1996 data from Fort Bragg would undoubtedly increase the number of restrictions and change the results.

Of the 201 installations responding to the survey, 168 had training or testing.<sup>8</sup> There were a total of 230 restriction records for all onsite and contiguous TEPC. Of these, 225 restrictions were for onsite species, while 5 of the restrictions applied to contiguous only species. Approximately 87% of the restrictions applied to training, whereas 13% applied to testing.

Of the 186 distinct onsite TEPC species that occurred on installations with training/testing, 45, or approximately 24%, had restrictions associated with them (Figure 6-1). See Appendix M for a listing of these species.

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<sup>8</sup> Included are four installations that do not have training or testing according to their MACOM, but that nevertheless reported restrictions: Sunny Point, Army Research Labs, Badger AAP, and Fort Belvoir.



**Figure 6-1. Distinct onsite TEPC causing restrictions.**

Table 6-1 provides a comparison of the number of distinct onsite TEPC species on training/testing installations to the number of those species that actually cause restrictions, by Federal status. The percent column shows the ratio of distinct onsite TEPC with restrictions to total distinct onsite TEPC (with and without restrictions). Thus, 16% of all distinct onsite TEPC on training/testing installations are Federally Endangered species with restrictions. For T&E species only, 42 of these 145 distinct species, or 29%, caused restrictions.

**Table 6-1. Distinct onsite TEPC on training/testing installations causing restrictions, by Federal status.**

Federal Status Category	Number of distinct onsite TEPC	Number of distinct onsite TEPC with restrictions	Percent of distinct onsite species with restrictions, out of all distinct onsite TEPC
Endangered	117	31	17%
Threatened	23	11	6%
Candidate	18	2	1%
Proposed Endangered	27	0	0
Proposed Threatened	1	1	<1%
Total	186	45	24%

Table 6-2 shows the number of restrictions for all TEPC species occurrences, by category.<sup>9</sup> Of the 230 restriction occurrences, the largest number is from birds (40%) and plants (35%), followed by mammals (14%).

<sup>9</sup> For example, if the Bald Eagle has five restrictions on one installation and two restrictions on another installation, these would account for seven of the total restriction occurrences for birds.

**Table 6-2. Number and percent of restriction occurrences, by category.**

<b>Category</b>	<b>Number of restriction occurrences</b>	<b>Percent of total restriction occurrences for each category</b>
Amphibians	0	0
Birds	91	40%
Clams	0	0
Crustaceans	6	3%
Fish	2	<1%
Insects	12	5%
Mammals	32	14%
Plants	81	35%
Reptiles	4	2%
Snails	2	<1%
Total	230	100%

Over half of the distinct species causing at least one restriction are plants, while nearly one-fourth are birds<sup>10</sup> (Table 6-3). The other categories account for relatively small percentages of the total distinct species with restrictions.

**Table 6-3. Number and percent of distinct species causing at least one restriction, by category.**

<b>Category</b>	<b>Number of distinct species causing at least one restriction</b>	<b>Percent of distinct species causing at least one restriction</b>
Amphibians	0	0
Birds	11	24%
Clams	0	0
Crustaceans	1	2%
Fish	2	4%
Insects	3	6%
Mammals	2	4%
Plants	23	54%
Reptiles	2	4%
Snails	1	2%
Total	45	100%

<sup>10</sup> For the bird category, the Bald Eagle would count for one distinct species causing restrictions, regardless of how many installations it occurred on or how many restrictions it caused.

The number of distinct TEPC causing restrictions are shown in Table 6-4 for each MACOM.<sup>11</sup> AMC, FORSCOM, NGB, and TRADOC each have between one-fourth and one-third of their distinct species causing restrictions. The MACOMS with a small number of distinct species (five or less) including MDW, MEDCOM, MTMC, and USMA show great variability in the percentage of species causing restrictions, from 0 to 100%. TRADOC has a large proportion of its distinct species causing restrictions, 42%. USARPAC, on the other hand, has by far the largest number of distinct species among the MACOMs, but a relatively small percentage cause restrictions, only 13%.

**Table 6-4. Distinct onsite TEPC causing restrictions within MACOMS.**

MACOM	Total number of distinct onsite TEPC within each MACOM	Number of TEPC causing restrictions within each MACOM	Percent of TEPC causing restrictions within each MACOM
AMC	19	5	26%
FORSCOM	28	11	39%
MDW	3	1	33%
MEDCOM	2	2	100%
MTMC	5	1	20%
NGB	57	19	33%
TRADOC	26	11	42%
USARC	13	5	39%
USARPAC	92	12	13%
USMA	2	0	0%

For a listing of the distinct species causing restrictions by MACOM, see Appendix N. This also shows a listing of all installations on which the species occur within a given MACOM.

Appendix O lists species causing restrictions, ordered from highest to lowest number of restrictions. In addition, the appendix shows how many installations have restrictions for each species.

Of the 45 distinct TEPC that cause restrictions, 25 species, or 56%, cause only 1 or 2 restrictions each. At the opposite end of the scale, 3 species, the San Joaquin Kit

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<sup>11</sup> Distinct species causing restrictions are calculated within each MACOM, just as they were for the entire Army. Since many MACOMs may have some of the same distinct species, such as the Bald Eagle, occurring on their MACOM, the distinct species on each MACOM cannot be added together to equal the distinct species Army-wide.

Fox, the Red-cockaded Woodpecker, and the Bald Eagle cause between 26 and 30 restrictions apiece. The remaining 17 species (38%) cause between 3 and 9 restrictions each (Appendix O).

Ten distinct TEPC cause restrictions on more than one installation (Table 6-5). This is less than 25% of the 45 species that cause restrictions; thus more than 75% of the species causing restrictions do so on a single installation. Six of the species causing restrictions on multiple installations are Federally Endangered and four are Federally Threatened species. For a listing of the installations where the ten species cause restrictions, see Appendix P.

**Table 6-5. Species causing restrictions on more than one installation.**

Scientific Name	Common name	Federal Status	Number of installations where species causes restrictions
<i>Haliaeetus leucocephalus</i>	Eagle, Bald	T	17
<i>Picoides borealis</i>	Woodpecker, Red-Cockaded	E	10
<i>Vireo atricapillus</i>	Vireo, Black-capped	E	4
<i>Falco peregrinus</i>	Falcon, Peregrine	E(S/A)	2
<i>Branchinecta lynchi</i>	Fairy Shrimp	T	2
<i>Dendroica chrysoparia</i>	Golden Cheeked Warbler	E	2
<i>Echinacea laevigata</i>	Smooth Coneflower	E	2
<i>Vulpes macrotis mutica</i>	Fox, San Joaquin Kit	E	2
<i>Gopherus agassizii</i>	Desert Tortoise	T	2
<i>Strix occidentalis lucida</i>	Owl, Mexican Spotted	T	2

Of the 168 installations with training/testing that responded to the survey, 44 (26%) have restrictions due to onsite TEPC and 3 have restrictions due to contiguous species. The remaining 121 installations either have no TEPC (59 installations) or no restrictions due to TEPC (62 installations). Thus 72% of all installations surveyed have no restrictions, either because they have no TEPC species, or because the species they have are not creating restrictions. Table 6-6 shows each MACOM according to whether its training/testing installations have one or more restrictions, no restrictions, or no TEPC.

**Table 6-6. Number of training/testing installations with and without restrictions due to onsite TEPC.**

MACOM	Number of installations with at least one restriction due to onsite and contiguous TEPC	Number of installations with no restrictions due to onsite or contiguous TEPC	Number of installations with no TEPC	Total number of installations reporting
AMC	5	17	13	35
FORSCOM	7	4	2	13
MDW	1	1	0	2
MEDCOM	1	0	0	1
MTMC	1	0	0	1
NGB	17	24	39	80
TRADOC	8	4	0	12
USARC	2	4	8	14
USARPAC	2	7	0	9
USMA	0	1	0	1
TOTAL	44	63	62	168

Table 6-7 displays information for installations with onsite TEPC. Of the 106 installations with onsite TEPC, 44 (42%) have restrictions. Sixty-two installations, or 58% of all installations with onsite TEPC, have no restrictions.

**Table 6-7. Number and percentage of training/testing installations with onsite TEPC that have restrictions.**

MACOM	Number of installations with onsite TEPC	Number of installations with at least one restriction due to onsite TEPC	Percent of MACOM's installations that have restrictions
AMC	22	5	23%
FORSCOM	11	7	64%
MDW	2	1	50%
MEDCOM	1	1	100%
MTMC	1	1	100%
NGB	41	17	41%
TRADOC	12	8	67%
USARC	6	2	33%
USARPAC	9	2	22%
USMA	1	0	0%
TOTAL	106	44	42%

Installations were asked whether their restrictions from TEPC were permanent (ongoing, with no end-date), temporary (with a specified end-date), or seasonal (for a

regularly recurring time period). Army-wide the majority of restrictions, 74%, were permanent, with 20% being seasonal. Only five restrictions, approximately 2%, were temporary. Table 6-8 shows the restriction duration by MACOM.

**Table 6-8. Number of permanent, temporary, and seasonal restrictions for onsite TEPC, by MACOM.**

MACOM	Permanent restrictions	Temporary restrictions	Seasonal restrictions	Not applicable / non-response	Total restrictions
AMC	4	0	4	2	10
FORSCOM	21	0	13	0	34
MDW	1	0	1	0	2
MEDCOM	0	0	2	0	2
MTMC	0	0	1	0	1
NGB	36	4	7	5	52
TRADOC	21	1	6	0	28
USARC	13	0	11	0	24
USARPAC	71	0	0	1	72
USMA	0	0	0	0	0
TOTAL	167	5	45	7	225

## Impacts

Installations were asked to provide a brief description of the impact to the training/testing mission that resulted from each restriction, or to state that the restriction resulted in no impact. Fifty-nine restrictions, or 26% of the total 225 restrictions, did not have an impact on the training mission due to onsite TEPC.

Installations were asked to rate the impact of restrictions on their ability to train and/or test to standard. A series of three survey questions asked for a green, amber, or red rating for the impact of *each restriction* (restriction level impact, question 17), the impact of *each species* (species level impact, question 20), and the overall impact of *all species* on the installation (installation level impact, question 23).

Degrees of impact are defined as follows:

### At the restriction level

- GREEN means that all Mission Essential Task List (METL) tasks can be trained to doctrinal standard — testing can be conducted without incomplete results.

- AMBER means one or two METL tasks cannot be trained to doctrinal standard — one or two testing tasks cannot be conducted.

-RED means that more than two METL tasks cannot be trained to doctrinal standard — more than two testing tasks cannot be conducted.

**At the species and installation level**

- GREEN means that overall, the species has no impact on the units' ability to train/test to standard nor does it impact on the training readiness of units/testing mission accomplishments.
- AMBER means that overall, the species has an impact on units' ability to train/test to standard but does not impact the training readiness of units/testing mission accomplishments.
- RED means that overall, the species has an impact on units' ability to train/test to standard and units have a difficult time meeting training readiness of units/testing mission accomplishments.

Tables 6-9, 6-10, and 6-11 present degree of impact (red/amber/green) for individual restrictions (restriction level), individual TEPC species (species level), and all TEPC species on installations (installation level). At all three levels the ratio of green, amber, and red impacts was similar: 59-63% green, 27-32% amber, and 3-10% red. Red impacts occur most frequently at the restriction level; 23 restrictions or 10% had a red impact. At the species level, two species were judged to cause a red impact to testing/training capability. At the installations level, two installations reported an overall red impact of all species on their installation.

**Table 6-9. Impact ratings at the restriction level.**

Degree of impact at the restriction level	Number of restrictions on onsite TEPC	Percentage of restriction occurrences, by degree of impact
GREEN	136	60%
AMBER	61	27%
RED	23	10%
NO RESPONSE	5	2%
TOTAL	225	100%

**Table 6-10. Impact ratings at the individual species level.**

<b>Degree of impact at the species level</b>	<b>Number of onsite TEPC species occurrences* with restrictions</b>	<b>Percentage of onsite TEPC with restrictions, by degree of impact</b>
GREEN	49	63%
AMBER	25	32%
RED	2	3%
NO RESPONSE	2	3%
TOTAL	78	100%

\* A species is counted more than once if it occurs on more than one installation

**Table 6-11. Impact ratings at the installation level.**

<b>Degree of impact at the installation level</b>	<b>Number of installations reporting restrictions</b>	<b>Percentage of installations reporting restrictions, by degree of impact</b>
GREEN	26	59%
AMBER	14	32%
RED	2	5%
NO RESPONSE	2	5%
TOTAL	44	100%

Tables 6-12 and 6-13 show the number of installations on each MACOM reporting at least one red impact or one amber impact. See Appendices Q and R for the names of these installations and the number of restriction occurrences and species occurrences causing the impacts.

**Table 6-12. Number of installations reporting RED impacts, by MACOM.**

<b>Degree of impact</b>	<b>MACOMs with installations reporting red impacts</b>	<b>Number of installations reporting a red impact</b>
Restriction level	NGB USARPAC	3 1
Species level	NGB	2
Installation level	NGB	2

**Table 6-13. Number of installations reporting AMBER impacts, by MACOM.**

Degree of impact	MACOMs with installations reporting amber impacts	Number of installations reporting an amber impact
Restriction level	NGB FORSCOM TRADOC USARC USARPAC	3 2 1 1 1
Species level	NGB FORSCOM AMC MEDCOM TRADOC USARC	7 4 2 1 1 1
Installation level	NGB FORSCOM TRADOC MEDCOM USARC	6 4 2 1 1

## Unit Status Reports

Installations were asked to state whether a particular impact or its associated restriction had been mentioned in the Unit Status Report (USR) as adversely impacting training.<sup>12</sup> Only two installations responded that the restriction had been mentioned in the USR. Fort Huachuca had a total of 3 restrictions mentioned in the USR, while Stead Training Site (NV-ARNG) had one restriction mentioned in the USR. The species associated with the restrictions are show in Table 6-14.

**Table 6-14. Species with restrictions or impacts mentioned in Unit Status Report.**

Installation	Scientific name	Common name	Number of impacts/restrictions mentioned in USR
Ft Huachuca	Leptonycteris curasoe (=sanborni) yerbabuenae	Sanborne's long-nosed bat	2
Ft Huachuca	Strix occidentalis lucida	Mexican spotted owl	1
NV-ARNG, Stead TS	Haliaeetus leucocephalus	Bald eagle	1

It should be noted that out of the 225 total onsite restrictions, 75 restrictions either produced no impact to training or referred to testing; the USR question was not applicable to these restrictions.

<sup>12</sup> This question does not apply to restrictions on testing.

## 7 Management and Compliance Concerns for Contiguous Species

Installations were asked to respond regarding species that are on their installations (O), contiguous to their installations (C), or both onsite and contiguous (B). This discussion of contiguous species refers to those species labeled (C) only. While Federal regulations technically do not apply to contiguous species, the proximity of contiguous species to installations may suggest a need to manage for them as if they were indeed found on the installation. This is particularly true of populations that may be suspected to occur on installations but whose presence has not been confirmed, those presumed likely to spread to the installation at some future time, or those that cause restrictions and/or impacts on the military mission.

### Total Occurrences

Table 7-1 shows onsite and contiguous TEPC occurrences for each MACOM. The total number of contiguous species on all MACOMS, 130, is approximately 25% of all species occurrences. For MTMC, approximately 70% of the species are contiguous. Appendix D lists all species on all installations, including contiguous species.

**Table 7-1. Breakdown of onsite and contiguous TEPC species occurrences, by MACOM.**

<b>MACOM</b>	<b>Total number of onsite TEPC occurrences</b>	<b>Total number of contiguous TEPC occurrences</b>	<b>Total number of all TEPC occurrences (onsite and contiguous)</b>
AMC	41	22	63
FORSCOM	46	14	60
MDW	4	0	4
MEDCOM	2	0	2
MTMC	5	12	17
NGB	88	31	119
TRADOC	47	9	56
USARC	17	4	21
USARPAC	139	38	177
USMA	2	0	2
<b>TOTAL</b>	<b>391</b>	<b>130</b>	<b>521*</b>

\* Two records are excluded from this total. Fort Lewis reported critical habitat for the Northern Spotted Owl, while noting that the owl is neither onsite nor contiguous to the installation. Camp Blanding reported the Florida Panther, but did not state whether it was onsite or contiguous.

## Endangered Species Management Plans

Endangered Species Management Plans (ESMPs) must be written for *onsite* species. However, there is no requirement that ESMPs be written for species on contiguous lands. Out of 130 contiguous TEPC, 119 were Federally Threatened, Endangered, and Proposed. Of these 119 contiguous TEP occurrences, 5% have a completed ESMP (Table 7-2), compared to 10% for onsite species (Table 5-14). The 7 contiguous TEP occurrences with completed ESMPs includes 6 distinct species: 5 Birds (Red-cockaded Woodpecker, Hawaii 'Akepa, Hawaii Creeper, Northern Spotted Owl, and the O'u), and 1 Amphibian (California Red-legged Frog).

Thirty-four percent of the contiguous TEP species (Table 7-2) have an ESMP in progress. Although this is lower than the rate for onsite species, it suggests proactive management. ESMPs have not been initiated for over half of contiguous species, compared to non-initiation for 28% of onsite species.

**Table 7-2. Number and percent of eligible contiguous species for which an ESMP has been prepared.**

ESMP status	Number of contiguous species occurrences by ESMP status	Percent of contiguous species occurrences by ESMP status
Approved ESMP has been completed	6	5%
ESMP is currently under preparation or in process	40	34%
ESMP has not been initiated	69	58%
No response	4	3%
Total number of eligible contiguous TEP species occurrences (listed or proposed species and critical habitat only)	119	100%

## Total Expenditures

Contiguous T&E species receive only about \$130K (1.3%) of the Army-wide T&E funding (Table 7-3). TRADOC, AMC, and NGB tend to spend more money outside their installation boundaries.

**Table 7-3. Total expenditures for contiguous T&E species, by MACOM.**

MACOM	Expenditures for contiguous T&E species by MACOM	Percent of expenditures for contiguous T&E species by MACOM
AMC	\$35,150	27%
FORSCOM	\$0	0%
MDW	\$0	0%
MEDCOM	\$0	0%
MTMC	\$0	0%
NGB	\$18,160	14%
TRADOC	\$70,000	54%
USARC	\$3,275	3%
USARPAC	\$3,150	3%
USMA	\$0	0%
TOTAL	\$129,735	100%

Most of the expenditures for contiguous species, a total of 87%, went for species in the Endangered category (Table 7-4). This is identical to the percentage spent for onsite Endangered species (Table 5-16).

**Table 7-4. Total expenditures for contiguous T&E species, by Federal status.**

Federal Status	Expenditures for contiguous T&E species by Federal Status	Percent of expenditures for contiguous T&E species by Federal Status
Endangered	\$112,735	87%
Threatened	\$17,000	13%
Total expenditures	\$129,735	100%

The average cost per contiguous T&E species is \$1,642 (Table 7-5.) This is much lower than the average cost for onsite T&E species, \$62,755 (Table 5-17). Of the contiguous species, birds had the highest total expenditure, \$80,500. However, when the average cost per species by category is considered, expenditures were highest for mammals, \$5,181 per species.

**Table 7-5. Total expenditure, and average expenditure, for contiguous T&E species, by category.**

Category	Expenditures for contiguous T&E species	Percent of expenditures for contiguous T&E species	Number of distinct contiguous T&E species	Average expenditure for contiguous T&E species
Amphibian	\$0	0%	0	\$0
Bird	\$80,500	62%	21	\$3,833
Clam	\$0	0%	7	\$0
Crustacean	\$0	0%	0	\$0
Fish	\$10,000	8%	5	\$2,000
Insect	\$0	0%	3	\$0
Mammal	\$31,085	24%	6	\$5,181
Plant	\$8,150	6%	29	\$281
Reptile	\$0	0%	4	\$0
Snail	\$0	0%	4	\$0
Total	\$129,735	100%	79	\$1,642

Sixteen contiguous T&E species had expenditures for Fiscal Year 1996. The total expenditures for these species was \$129,735 and includes: 7 plants, 5 birds, 3 mammals, and 1 amphibian (Table 7-6).

**Table 7-6. Total expenditures for contiguous T&E species.**

#	Scientific Name	Common Name	Category	Cost
1	<i>FALCO FEMORALIS SEPTENTRIONALIS</i>	FALCON, NORTHERN APLOMADO	BIR	\$65,000
2	<i>MYOTIS SODALIS</i>	INDIANA BAT	MAM	\$15,310
3	<i>MYOTIS GRISESCENS</i>	GRAY BAT	MAM	\$15,000
4	<i>AMBLYOPSIS ROSAE</i>	OZARK CAVEFISH	AMP	\$10,000
5	<i>PICOIDES BOREALIS</i>	WOODPECKER, RED-COCKADED	BIR	\$9,000
6	<i>SPIRANTHES DILUVIALIS</i>	UTE LADIES'-TRESSES	PLA	\$5,000
7	<i>GYMNOGYPHS CALIFORNIANUS</i>	CALIFORNIA CONDOR	BIR	\$2,500
8	<i>FALCO PEREGRINUS</i>	FALCON, PEREGRINE	BIR	\$2,000
9	<i>HALIAEETUS LEUCOCEPHALUS</i>	EAGLE, BALD	BIR	\$2,000
10	<i>CTENITIS SQUAMIGERA</i>	PAUOA	PLA	\$1,000
11	<i>CANIS LUPUS</i>	WOLF, GRAY	MAM	\$775
12	<i>CYANEA GRIMESIANA SSP. OBATAE</i>	OHA, HAHA	PLA	\$500
13	<i>LYCOPodium NUTANS</i>	WAWAE`IOLE	PLA	\$500
14	<i>SOLANUM SANDWICENSE</i>	`AIAKEAKUA, POPOLO	PLA	\$500
15	<i>STENOZYNE KANEHOANA</i>	NONE	PLA	\$500
16	<i>EUGENIA KOOLAUENSIS</i>	NOI	PLA	\$150

Only four installations in two MACOMs have restrictions due to contiguous TEPC (Table 7-7).

**Table 7-7. Installations with restrictions due to contiguous TEPC.**

MACOM	Number of installations with contiguous TEPC	Number of installations with at least one restriction due to contiguous TEPC	Names of installations with at least one restriction due to contiguous TEPC
AMC	3	1	Badger AAP
NGB	9	3	LA-ARNG, Camp Beauregard WY-ARNG, Camp Guernsey MS-ARNG, Camp Shelby
TOTAL	12	4	

## 8 Summary

A total of 201 installations, representing 10 MACOMs, responded to the 1996 Threatened and Endangered Species Survey. Of these 201 installations, 105 had onsite Threatened, Endangered, Proposed, or Candidate (TEPC) species, 84 had no species, and 12 had TEPC species that were strictly contiguous to the installation. Of the 105 installations with onsite TEPC species, 100 have onsite T&E species.

There were a 199 distinct onsite TEPC species (391 occurrences) identified from the 105 installations with onsite species. Of these 199 onsite TEPC species, 151 (321 occurrences) were either Threatened or Endangered. Broken down by Federal status, 59% of the 391 onsite TEPC species occurrences were Federally Endangered, 23% were Federally Threatened, 12% were Proposed Endangered, 6% were Candidates, and <1% were Proposed Threatened. By category, 58% of the onsite TEPC species occurrences were plants, 17% were birds, 7% were snails, 5% were mammals, 4% were reptiles, 3% were fish and insects, 2% were amphibians, and 1% were clams and crustaceans.

Confirmed species with critical habitat include the Mexican spotted owl (Camp Navajo and Fort Huachuca), northern spotted owl (Fort Lewis), palila (Pohakuloa), Oregon Silverspot butterfly (Camp Rilea), and the desert tortoise (Fort Irwin).

Of the 321 onsite T&E species occurrences, 215 occurrences had no biological assessment, 95 had a completed biological assessment, and 11 occurrences had no response. The 95 onsite T&E species occurrences with biological assessments are from 54 distinct species and account for 306 individual assessments. Of the 306 individual assessments, 71% resulted in a "no affect" finding, and 18% resulted in a "may affect" finding. The remaining 11% did not provide information on "no affect/may affect" determinations.

Forty-five onsite T&E species occurrences had a Biological Opinion: 56% were implemented, 24% had varying implementation statuses, and 16% were currently under consultation. Formal consultations with the USFWS for onsite T&E species resulted in 75 Non-Jeopardy Opinions, and 20 Jeopardy Opinions.

Of the 391 onsite TEPC species occurrences, only 369 were considered "eligible" to have an ESMP. The 369 "eligible" onsite species occurrences include: 59% with an ESMP currently under preparation or in process, 28% that have not yet initiated an ESMP, and 10% with a completed ESMP.

The Army spent approximately \$9.5 million on T&E species in 1996, with another \$130K for contiguous species. Of the \$9.5 million spent in 1996, \$7.503K was spent on birds, \$618K on plants, \$506K on reptiles, \$459K on mammals, \$279K on insects, \$97K on crustaceans, \$10K on fish, \$2.5K on amphibians, and <\$1K on clams.

A total of 230 restriction records were recorded for all onsite and contiguous TEPC species. Of these, 225 restrictions were for onsite species, while 5 restrictions applied to contiguous species. Approximately 23% of the 199 distinct onsite TEPC species had restrictions associated with them. By category, birds had 40% of the restrictions, plants (35%), mammals (14%), insects (5%), crustaceans (3%), reptiles (2%), fish and snails (<1%), and amphibians and clams did not have any restrictions.

## References

- Flather, Curtis H., Linda H. Joyce, and Carol A. Bloomgarden, *Species Endangerment Patterns in the United States*, Gen. Tech. Rep. RM-241, (U.S. Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO, 1994).
- Schreiber, Eric R., Rachel A. Shaw, and Alison Hill, *Threatened and Endangered Species on Army Installations: A MACOM Report*, Technical Report (TR) 98/18 (U.S. Army Construction Engineering Research Laboratories [USACERL] December, 1997).
- Schreiber, Eric R., Rachel A. Shaw, Alison Hill, and Mary A. Reed, *Installation Summaries from the 1996 Survey of Threatened and Endangered Species on Army Lands*, Technical Report (TR) 98/19 (USACERL December, 1997).

## **Appendix A: Points-of-Contact**

**The following point-of-contact list was extracted from survey responses provided by installations.**

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	ST	Zip
AMC	Aberdeen Proving Ground	JAMES POTTIE	410-671-4841	410-671-3010	jpotte@dsneaa.apg.army.mil	Dir. of Safety, Health, and Environment, APG	MD	21005-5001
AMC	ALABAMA AAP	C/O RICH CLEWELL	309-782-8252	309-782-7566	rclewell@ria-emh2.army.mil	C/O US ARMY MATERIEL COMMAND, INSTALLATION AND SERVICES ACTIVITY, ROCK ISLAND IL 61289-7190	Attn: STEAP SH-ER (Mr. Pottie)	MI
AMC	ANNISTON ARMY DEPOT & COOSA RIVER STORAGE ANNEX	BILLY BURNS	205 235-4217	205 235-7726	wfburns@anad-emh1.army.mil	7 FRANKFORD AVE, ANNISTON	Attn: SLOAN-RK-E	AL 36201-4199
AMC	ARMY RESEARCH LABS (ADELPHI)	ROBERT WARDWELL	301 394-1060	394-1386	RWardwell@arl.mil	BLOSSOM POINT ROAD	Attn: AMSRL-CS-AL-FE	MD 20646
AMC	BADGER AAP	DOUGLAS RHEAD	608-356-5525 x202	608-356-5525 x202	dthead@R13503S1	2 BADGER RD, BARABOO	Attn: SIOBA-NR	WI 53913
AMC	BLUEGRASS ARMY DEPOT	BILLY HASLETT	606-625-6669	606-625-6323	bhaslett@bluegrass-emh1.army.mil	2091 KINGSTON HWY, RICHMOND	ATTN: SIOBG-PW	KY 40475-5010
AMC	CHARLES MELVIN PRICE SUPPORT CENTER	C/O RICH CLEWELL	309-782-8252	309-782-7566	rclewell@ria-emh2.army.mil	C/O US ARMY MATERIEL COMMAND, INSTALLATION AND SERVICES ACTIVITY, ROCK ISLAND IL 61289-7192	AMXEN-M	IL
AMC	CORNHUSKER AAP	SCOTT SMITH	913-583-3000 x6905	913-583-3000 x6905	SSMITH2@RIA-EMH2.ARMY.MIL	102 N 60TH RD	Attn: SIOSF-NR	NE 68803-9022
AMC	DETROIT ARSENAL	C/O RICH CLEWELL	309-782-8252	309-782-7566	rclewell@ria-emh2.army.mil	C/O US ARMY MATERIEL COMMAND, INSTALLATION AND SERVICES ACTIVITY, ROCK ISLAND IL 61289-7190	AMXEN-M	MI
AMC	DUGWAY PROVING GROUND	SCOTT BATES	801-831-3735	801-831-3749	sbales@dugway-emh4.army.mil	DUGWAY PROVING GROUND	ATTN:S-TEDP-DEP -CP	UT 84022
AMC	FORT MONMOUTH	DINKEL DASAI	908-532-1475	908-532-3484	desai@doim6.monmouth.army.mil	173 RIVERSIDE AV	ATTN:SELFM-PW-EV	NJ 07703-5108
AMC	HAWTHORNE ARMY DEPOT	JIM PURRELL	702-945-7590	702-945-7968	jpurrell@ria-emh2.army.mil	P.O. BOX 5000	Attn: SIOHW-ORE	NV 89415-5000
AMC	Holston AAP	GREGORY W. LEE	423-578-6276	423-578-6326	glee1@ria-emh2.army.mil	4509 West Stone Drive, Kingsport	Attn: SIOHS-EC	TN 37660-3982
AMC	INDIANA AAP	Walt McClellan	812-284-7616	812-284-7820	indiana aap@ri	11452 Highway 62, Charnestown	ATTN: SIOIN-NR	IN 47111-9667

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
AMC	IOWA AAP	JOE HAFFNER	319-753-7903	319-753-7601	jhaffner@ria-emh2.army.mil	17571 STATE HIGHWAY, MIDDLETOWN HIGHWAY 421	SIOIA-PPE	IA	52638
AMC	JEFFERSON PROVING GROUND	KEN KNOUF	812 273-2551	812 273-2853	NA			IN	47250
AMC	JOLIET AAP	ARTHUR HOLZ	815-423-2877	815-423-2871	aholz@ria-emh2.army.mil	29401 S. RTE. 53, WILMINGTON PARSONS	SIOQ-O-OR	IL	60481
AMC	KANSAS ARMY AMMUNITION PLANT	MR. ALAN HYNEK	316-421-7427	316-421-7548	aheyek@ria-emh2.army.mil	23018 ROOKS ROAD, PARSONS	Attn: SIOKS-ORN	KS	67357-8403
AMC	LAKE CITY AAP	SCOTT SMITH	913-583-3000 EXT 6964	913-583-3000 EXT 6905	SSMITH2@RIA-EMH2.ARMY.MIL		Attn: SIOSF-NR	MO	64051-0250
AMC	LETTERKENNY ARMY DEPOT	RANDY QUINN	717-267-8438	717-267-8287	rquinn@letterkenn-emh1.army.mil	BLDG. 618, CHAMBERSBURG	Attn: SIOLE-EEJ	PA	17201
AMC	LIMA ARMY TANK PLANT	PHIL R. DAWSON	(419) 221-9537	(419) 221-9622	brq9051@dcrb.dla.mil	1155 BUCKEYE ROAD, LIMA	ATTN: P. DAWSON DCMDE-RQTF	OH	45804-1898
AMC	Longhorn AAP	Paul Hagerly	318-459-5479	318-459-5112	phagerly@ria-emh2.army.mil	Highway 134 @ Highway 43, Kamack	ATTN: SIOIH-OR	TX	75661
AMC	Louisiana AAP	Paul Hagerly	318-459-5479	318-459-5112	phagerly@ria-emh2.army.mil	9649 Hwy 80, Minden McAlester	ATTN: SIOIH-OR ATTN: Bill Starry	LA OK	71055 74501-5000
AMC	MILAN AAP	COOPER STEPHENS	901-886-6611	901-686-6619	g.cooper.stephens@imco.com	2280 HWY 104W, SUITE 1 C/O US ARMY MATERIEL COMMAND, INSTALLATION AND SERVICES ACTIVITY, ROCK ISLAND IL 61299-7191	AMXEN-M	TN	38358-3176
AMC	NATICK RD&E CENTER	C/O RICH CLEWELL	309-782-8252	309-782-7566	rclewell@ria-emh2.army.mil	P.O. BOX 458, NEWPORT	Phillip Cox	IN	47966-0458
AMC	NEWPORT CHEMICAL DEPOT	PHILLIP COX	317-245-4324	317-245-4418	N/A	PICATINNY ARSENAL	ATTN: AMSTA-AR-PWR	NJ	07806-5000
AMC	PICATINNY ARSENAL TAGCOM-ARDEC	JON VANDEVERTER	201-724-4691	201-724-2234	jvande@picca.army.mil	10020 KABRICH CIRCLE, PINE BLUFF	Attn: SIOPB-EM	AR	71602-9500
AMC	PINE BLUFF ARSENAL	CHARLES BECKER	501-540-2834	501-540-2818	charles-becker@PBA-EMH1.army.mil	C/O US ARMY MATERIEL COMMAND, INSTALLATION AND SERVICES ACTIVITY, ROCK ISLAND IL 61299-7193	AMXEN-M	CO	
AMC	PUEBLO DEPOT ACTIVITY	C/O RICH CLEWELL	309-782-8252	309-782-7566	rclewell@ria-emh2.army.mil	P.O. BOX 2	Attn: SIORF-SE-EQ	VA	24141
AMC	RADFORD AAP	CHARLES CHASE	540-693-8649	540-639-8635	jjenkins@ria.emh2.army.mil				
AMC	RAVENNA AAP	TIM MORGAN	330-358-7311	330-358-7314	Ravenna:AAP@RIA-EMH2.army.mil	8451 STATE ROUTE 5	Attn: SIORV-NR	OH	44266-9297
AMC	RED RIVER ARMY DEPOT	BENNIE MURRAY/ TERRY RUTH	903-334-2379	903-334-4924	SIORROL@REDRIVERAD-EMH1.ARMY .MIL	TEXARKANA	Attn: SIORR-OL	TX	75507-5000
AMC	REDSTONE ARSENAL	DANNY DUNN	205-955-6970	205-876-0887	ddunn@hnwms1.redstone.army.mil	MICOM, REDSTONE ARSENAL AL 35898	ATTN: AMSM-TRA-EMP-IR	AL	35898

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
AMC	ROCK ISLAND ARSENAL	RICH TODD	(309)782-2045	(309)782-2550	RTODD@RIA-EMH2.ARMY.MIL	ROCK ISLAND, ILLINOIS	ATTN:SIORI-PWB	IL	56299
AMC	SAVANNA ARMY DEPOT ACTIVITY	BOB SPEAKER	815-273-8533	815-273-6068	rspeaker@letterkenn-emh1.army.mil	FT 84 NORTH	ATTN:SIOSV-AE	IL	61074
AMC	SENECA ARMY DEPOT ACTIVITY	MICHAEL STOFKA	607-869-1532	607-869-1362	scooper@seneca-emh.army.mil	5786 STATE ROUTE 96 ; FONMULUS	Attn: SIOS-E	NY	14541-5001
AMC	SERRA ARMY DEPOT	JOHN COLEBERG	916 827-4454	916 827-4849	jcollberg@sierra.emh.army.mil	BUILDING 79, HERLONG PO BOX 640	Attn: SIOS-ENV	CA	96113
AMC	SUNFLOWER AAP	SCOTT SMITH	913-583-3000	913-583-3000 EXT6964	SSMITH2@RIA-EMH2.ARMY.MIL		Attn: SIOSF-NR	KS	66018-0640
AMC	Tobynamia Army Depot	Randy Didier	717-895-7090	717-895-7005	rdidier@tobynamia-emh3.army.mil	11 Hap Arnold Blvd	ATTN: SIOTY-RK-E	PA	18466-5086
AMC	TOOELE ARMY DEPOT	MASON WALKER	801 833-8733	801 833-3929	sioete@tooele-emh1.army.mil	BUILDING 501, TOOELE	Attn: SIOTE-PWE-E	UT	84074
AMC	TWIN CITIES AAP	DOUGLAS RHEAD	612-633-2303 x1636	612-633-2308	dthead@R13503S1	4700 HWY 10, SUITE A, ARDEN HILLS	SIOTC-NR	MN	55112
AMC	UMATILLA CHEMICAL DEPOT	BOB NELSON	541-564-5252	541-564-5371		HERMISTON	SCBUL-EVS,BLDG 32	OR	97838
AMC	VINT HILL FARMS STATION	C/O RICH CLEWELL	309-782-8252	309-782-7366	rclewell@ria-emh2.army.mil	C/O US ARMY MATERIEL COMMAND, INSTALLATION AND SERVICES ACTIVITY, ROCK ISLAND IL 61298-7194	AMXEN-M	VA	
AMC	Volunteer AAP	GREGORY W. LEE	423-578-6276	423-578-6326	glee1@ria-emh2.army.mil	P.O. Box 22607, Chattanooga	Attn: SOHS-EC	TN	37422-2607
AMC	WATERVILLE ARSENAL	C/O RICH CLEWELL	309-782-8252	309-782-7566	rclewell@ria-emh2.army.mil		AMXEN-M	NY	
AMC	WHITE SANDS MISSILE RANGE	DAVE H OLDERMANN DAVE ANDERSON	505-678-2841 505-678-7917	505-678-4028		COMMAND, INSTALLATION AND SERVICES ACTIVITY, ROCK ISLAND IL 61298-7195	ATTN: NRRES-E	NM	88002
AMC	YUMA PROVING GROUND	JUNIOR D. KERN	520 328-2148	520 328-3785	jkerns@yuma.emh1.army.mil	COMMANDER, U.S. ARMY WHITE SANDS MISSILE RANGE, ATTN: STEWNS-NRES-E, WSMR, NM	Attn: STEYP-ES-C	AZ	85365-9107
FORSCOM	FT BRAGG	SCOTT BEBB	910-432-5325	901-432-7776	bebbs@obs.bragg.army.mil	FORT BRAGG	Attn: AFZA-PW-DS	NC	28307
FORSCOM	FT BUCHANAN	TONY PEREZ	787-273-3508	200-233-3347	perez@ftmcphsn-emh2.army.mil	DPW, BLDG 556	ATTN: ENV. OFF	PR	06934-5040
FORSCOM	FT CAMPBELL	JEFF JONES, GENE ZIRKLE, TOM HARSCHBARGER	502-798-9825	502-798-9824	NA	BLDG 2159 137TH STREET, FORT CAMPBELL	Attn: AFZB-DPW-E-CN	KY	42223

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
FORSCOM	FT CARSON	Richard Bunn (vertebrate), Dave Anderson (plants)	719-576-8075 (Bunn) 715-526-4683 (Anderson)	719-576-8061 (Bunn) 719-526-1705 (Anderson)	andersond@carson-emh1.army.mil	HQ, Ft Carson	AFZC-ECM	CO	80913-5000
FORSCOM	FT DIX	C/O BERT BIVINGS	404-669-7659	404-669-7827	bivings@fmcpshs1-emn1.army.mil	CIO HQ FORSCOM, ENGINEERS ENVIRONMENTAL BRANCH, FT MCPHERSON, GA 30330- 6000	ATTN: AFPI-ENE	NJ	
FORSCOM	FT DRUM	C/O BERT BIVINGS	404-669-7659	404-669-7827	bivings@fmcpshs1-emn1.army.mil	CIO HQ FORSCOM, ENGINEERS ENVIRONMENTAL BRANCH, FT MCPHERSON, GA 30330- 6000	ATTN: AFPI-ENE	NY	
FORSCOM	FT GILLEM	C/O BERT BIVINGS	404-669-7659	404-669-7827	bivings@fmcpshs1-emn1.army.mil	CIO HQ FORSCOM, ENGINEERS ENVIRONMENTAL BRANCH, FT MCPHERSON, GA 30330- 6000	ATTN: AFPI-ENE	GA	
FORSCOM	FT HAMILTON	C/O BERT BIVINGS	404-669-7659	404-669-7827	bivings@fmcpshs1-emn1.army.mil	CIO HQ FORSCOM, ENGINEERS ENVIRONMENTAL BRANCH, FT MCPHERSON, GA 30330- 6000	ATTN: AFPI-ENE	NY	
FORSCOM	FT HOOD	DENNIS HERBERT	817-287-2885	817-288-5039	herbertd@hood-emh3.army.mil	HQ III CORPS & FORT HOOD	Attn: AFZI-PW-ENV	TX	76544
FORSCOM	FT IRWIN	MICKEY QUILLMAN	1 (619) 380-3740	1(619) 380-5293	quilliam@irwin.army.mil	DIRECTORATE OF PUBLIC WORKS FORT IRWIN, CA 92310-105097	ATTN: AFZJ-PW-EV	CA	92310
FORSCOM	FT MC PHERSON	GARY STEDMAN BERT BIVINGS	206-964-5337 404-669-7659	206-964-2488 404-669-7827	gstedman@lewis-dh2.army.mil bivings@fmcpshs1-emn1.army.mil	BOX 339500 CIO HQ FORSCOM, ENGINEERS ENVIRONMENTAL BRANCH, FT MCPHERSON	Attn: AFZH-PWQ ATTN: AFPI-ENE	WA GA	98433-9500 30330-6000
FORSCOM	FT POLK	STEPHANIE STEPHENS	318-531-6130	318-531-6318	jsmith@POLK-EMH2.ARMY.MIL	HQ JRTC & FORT POLK FORT POLK	Attn: AFZX-PW-EC	LA	71459
FORSCOM	FT RILEY	DAVE JONES	913-239-6211	913-239-0996	NA	BLDG 1970 SECOND STREET	ATTN: AFZN-ES-N	KS	66442
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	TIM BEATY	912-767-7261	912-767-9433	beaty%dpw2@stewart-emh4.army.mil	DPW, ENRD, F & W BRANCH FORT STEWART, GA	Attn: AFZP-DEV-W	GA	31314-5000

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
FORSCOM	FT TOTTEN	C/O BERT BIVINGS	404-669-7659	404-669-7827	bivings@ftmcphsn-emn1.army.mil	C/O HQ FORSCOM, ENGINEERS ENVIRONMENTAL BRANCH, FT MCPHERSON, GA 30330- 6000	ATTN: AFPI-ENE	NY	
FORSCOM	HANCOCK ARMY COMPLEX	C/O BERT BIVINGS	404-669-7659	404-669-7827	bivings@ftmcphsn-emn1.army.mil	C/O HQ FORSCOM, ENGINEERS ENVIRONMENTAL BRANCH, FT MCPHERSON, GA 30330- 6000	ATTN: AFPI-ENE	NY	
FORSCOM	PINON CANYON MANEUVER SITE	Richard Bunn (Vertebrate), Dave Anderson (plants)	719-576-8075 (Bunn) 715-526-4683 (Anderson)	719-576-8061 719-526-1705	anderson@carson-emn1.ar bivings@ftmcphsn-emn1.army.mil	HQ, PCMS; 36086 US HWY 350, MODEL CO	none	CO	81059
FORSCOM	VANCOUVER BARRACKS	C/O BERT BIVINGS	404-669-7659	404-669-7827	bivings@ftmcphsn-emn1.army.mil	C/O HQ FORSCOM, ENGINEERS ENVIRONMENTAL BRANCH, FT MCPHERSON, GA 30330- 6000	ATTN: AFPI-ENE	WA	
FORSCOM	YAKIMA TRAINING CENTER	MARGARET POUNDS	509-577-3402	509-577-3336	pounds@lewis-deh2.army.mil	AFZI-H-YT-DENR, BLDG. 810, YAKIMA	Attn: AFZI-H-YT-DENR	WA	98901
MDW	Fort Belvoir	DOROTHY KEOUGH	703-806-4007	703-806-3246	keoughd@belvoir-lbm2.army.mil	9820 FLAGLER ROAD, SUITE 213 FORT BELVOIR	Attn: ANFB-PWE	VA	22060
MDW	FT A.P. HILL	HEATHER MANSFIELD	804-633-8417	804-633-8751		BOWLING GREEN	Attn. ANAP-PWE	VA	22427
MDW	FT GEORGE G. MEADE	BILL HARMYER	301-677-9648	301-677-9001		BLDG 239, ROSS RD AND 21/2 STREET, FORT MEADE	Attn: ANME-PW	MD	20755-5050
MDW	FT MCNAIR	JEWEL A. SIMMONS (MDW)	202-685-3387		simmonsj@mchair-emh2.army.mil			DC	
MDW	FT MEYER	JEWEL A. SIMMONS (MDW)	202-685-3387		simmonsj@mchair-emh2.army.mil			VA	
MDW	FT RITCHIE	JEWEL A. SIMMONS (MDW)	202-685-3387		simmonsj@mchair-emh2.army.mil			MD	
MEDCOM	FITZSIMMONS ARMY MEDICAL CENTER	GILBERT GONZALEZ, US ARMY MEDICAL COMMAND	210-221-6441	210-221-6672	gilbert_gonzalez@smplink.medcom1.arm dd.army.mil	C/o 2050 WORTH ROAD, FORT SAM HOUSTON, TX 75234-6021	Attn: MCFA-E	CO	
MEDCOM	Fort Sam Houston/ (Camp Bullis)	Jackie Schlatter	210-221-5093	210-221-5419	jackie_schlatter@smplink.medcom1.arm dd.army.mil	2202 15th Street, Bldg 4196	Attn: MCGA-FW-ENR	TX	78234-5007
MEDCOM	FT DETRICK	GILBERT GONZALEZ, US ARMY MEDICAL COMMAND	210-221-6441	210-221-6672	gilbert_gonzalez@smplink.medcom1.arm dd.army.mil	C/o 2050 WORTH ROAD, FORT SAM HOUSTON, TX 75234-6020	Attn: MCFA-E	MD	

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
MEDCOM	WALTER REED ARMY MEDICAL CENTER	GILBERT GONZALEZ, US ARMY MEDICAL COMMAND.	210-221-6441	210-221-6672	gilbert_gonzalez@smplink.medcom.army.mil	C/O 2050 WORTH ROAD, FORT SAM HOUSTON, TX 78234-6022	Attn: MCFA-E	MD & DC	
MTMC	1303d MAJOR PORT COMMAND, SUNNY POINT	TONY GAW	910-457-8429	910-457-8369	gawh@bayonne-emh3.army.mil	JCT HWY. 138 AND 87, SOUTHPORT	Attn: MTESU-PW	NC	28461
MTMC	Military Ocean Terminal, Bayonne	LEONARD WAGNER	(201)823-7010	(201)823-7040	wagner@bayonne-emh3.army.mil	Foot of 32nd St Bridge	Attn: MT EGB-PWE	NJ	7002
MTMC	OAKLAND ARMY BASE AL-ARNG	RICHARD ANDREWS MAJ. WAYNE SARTWELL	510-466-2694 334-271-7427	510-466-2666 334-213-7689	andrews@oakland-smtp.army.mil	100 ALASKA STREET 3711 WM DICKINSON DRIVE, P.O. BOX 3711	MTWGA-EN Attn: MAJ. WAYNE SARTWELL, ENVIRONMENTAL DIVISION	CA	94626-5000 36109-0711
NGB	AR-ARNG, CAMP JOSEPH T. ROBINSON	KERRY KOEHLER	501-212-5886	501-212-5859	kerryw@osiris.cs.o.uiuc.edu	BOX 5, NORTH LITTLE ROCK	ATTN: ARNG-FMO-E	AR	72199-9600
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	CHRISTOPHER D. PEDERSEN	602-267-2464	602-267-2643	NONE	5636 E. McDowell Rd. Phoenix, AZ 85008-3495	Attn: AZAA-FME	AZ	85008-3495
NGB	CA-ARNG, CAMP ROBERTS	JULIE ELIASON	805-238-8265	805-238-8155	NA	HQ, CAMP ROBERTS, CAMP ROBERTS	Attn: CACR-EV	CA	93451-5000
NGB	CA-ARNG, CAMP SAN LUIS OBISPO	JULIE ELIASON	805-238-8265	805-238-8155	NA	PO BOX 8104, CAMP SAN LUIS OBISPO		CA	93403-8104
NGB	DE-ARNG	CPT SCOTT RALPH	302-326-7132 DSN: 440-7132	302-326-7140 DSN: 440-7140	EPSDE@DE-NGNET.ARMY.MIL SRALPH@OSIRIS.CSO.UIUC.EDU	FACILITIES MANAGEMENT OFFICE, FIRST REGIMENT ROAD	ATTN: DE-AEN-E	DE	19808-2191
NGB	FL-ARNG, CAMP BLANDING TS	DR. PHILIP M. HALL	904-533-3456	904-533-3329	phall@flmmh.ul.edu	RT. 1, BOX 465, BLDG. 3018 STARKE	ATTN: ENV	FL	32091-9703
NGB	HI-ARNG, AHOAKA AND WAILUA RIVER LTA	Melissa Dunaran	(808) 733-4265	(808) 737-3575	dumaran@hawaii.edu	HAWAII ARMY NATIONAL GUARD, 3949 Diamond Head Road, Honolulu	Attn: Engineering-Enviro nmental	HI	96816-4495
NGB	HI-ARNG, ANAHOLA LTA	Melissa Dunaran	(808) 733-4265	(808) 737-3575	dumaran@hawaii.edu	HAWAII ARMY NATIONAL GUARD, 3949 Diamond Head Road, Honolulu	Attn: Engineering-Enviro nmental	HI	96816-4495
NGB	HI-ARNG, CAMP MALUHIA LTA	Melissa Dunaran	(808) 733-4265	(808) 737-3575	dumaran@hawaii.edu	HAWAII ARMY NATIONAL GUARD, 3949 Diamond Head Road, Honolulu	Attn: Engineering-Enviro nmental	HI	96816-4495
NGB	HI-ARNG, FT RUGER	Melissa Dunaran	(808) 733-4265	(808) 737-3575	dumaran@hawaii.edu	HAWAII ARMY NATIONAL GUARD, 3949 Diamond Head Road, Honolulu	Attn: Engineering-Enviro nmental	HI	96816-4495
NGB	HI-ARNG, KANAIO LTA	Melissa Dunaran	(808) 733-4265	(808) 737-3575	dumaran@hawaii.edu	HAWAII ARMY NATIONAL GUARD, 3949 Diamond Head Road, Honolulu	Attn: Engineering-Enviro nmental	HI	96816-4495

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
NGB	HI-ARNG, KEAMUKU LTA	Melissa Dumaran	(808) 733-4265	(808) 737-3575	dumaran@hawaii.edu	HAWAII ARMY NATIONAL GUARD, 3849 Diamond Head Road, Honolulu	Attn: Engineering-Enviro nmental	HI	96816-4495
NGB	HI-ARNG, KEAUKAHA MILITARY RESERVATION	Melissa Dumaran	(808) 733-4265	(808) 737-3575	dumaran@hawaii.edu	HAWAII ARMY NATIONAL GUARD, 3849 Diamond Head Road, Honolulu	Attn: Engineering-Enviro nmental	HI	96816-4495
NGB	HI-ARNG, KEKAHA LTA	Melissa Dumaran	(808) 733-4265	(808) 737-3575	dumaran@hawaii.edu	HAWAII ARMY NATIONAL GUARD, 3849 Diamond Head Road, Honolulu	Attn: Engineering-Enviro nmental	HI	96816-4495
NGB	HI-ARNG, PU'U PALTA	Melissa Dumaran	(808) 733-4265	(808) 737-3575	dumaran@hawaii.edu	HAWAII ARMY NATIONAL GUARD, 3849 Diamond Head Road, Honolulu	Attn: Engineering-Enviro nmental	HI	96816-4495
NGB	HI-ARNG, UKEMEHIME FIRING RANGE	Melissa Dumaran	(808) 733-4265	(808) 737-3575	dumaran@hawaii.edu	HAWAII ARMY NATIONAL GUARD, 3849 Diamond Head Road, Honolulu	Attn: Engineering-Enviro nmental	HI	96816-4495
NGB	IA-ARNG, CAMP DODGE	MARY JONES	515-252-4648	515-252-4389	NONE	BLDG. B-61 2700 NW BEAVER DRIVE, CAMP DODGE JOHNSTON IA 50131	Attn: AGIA-FAC-E	IA	50131
NGB	ID-ARNG, ORCHARD TA	DANA QUINNEY	208-422-4181	208-422-4169	danaq@aol.com OR danaq@dmni.net	4715 S. BYRD ST., BOISE	NOT NECESSARY-USE PERSONS NAME	ID	83705
NGB	IL-ARNG, MARSELLES TA	JON CASEBEER	217-785-3592	217-785-3790		O/O DEPT OF MILITARY AFFAIRS, FACILITIES AND ENGINEERING DIRECTORATE, 1301 N. MACARTHUR BLVD, SPRINGFIELD Bldg. 224		IL	62702-2399
NGB	IN-ARNG, Alterbury Reserve Forces TA	Art Howard	812-526-1249	812-526-1248		106 HINKLE STREET, BARBOURVILLE	Attn: MDI-FE-EN	IN	46124-1096
NGB	KY-ARNG, ARTEMUS TS	SGM HAROLD DISNEY	606-546-7838	N/A	N/A	106 HINKLE STREET, BARBOURVILLE	Attn: KG-EKWETS	KY	40906
NGB	KY-ARNG, EASTERN KENTUCKY TS	SGM HAROLD DISNEY	606-546-7838	N/A	N/A	106 HINKLE STREET, BARBOURVILLE	Attn: KG-EKWETS	KY	40906
NGB	KY-ARNG, WESTERN KENTUCKY TS	CW4 JOE WILKINS	502-338-5541	502-338-5541	N/A	KY HWY 181 NORTH, GREENVILLE	Attn: KG-WKYTS	KY	42345
NGB	LA-ARNG, CAMP BEAUREGARD THOMPSON	CW2 CARL THOMPSON	318-641-8309	318-641-3328	no email	PO BOX 34, CAMP BEAUREGARD, PINEVILLE	Attn: CW2 CARL THOMPSON	LA	71360-3737
NGB	MD-ARNG, Lili Aaron Straus Wilderness Area	CPT Chris Cole	410 576-6132	410 576-6070	ranger@erots.com	5th Regiment Armory	MD-STARC-FMO-E	MD	21201
NGB	ME-ARNG, AUBURN TS	MAJ TIM BOWMAN	207-626-4395	207-626-4553	bowman@me-ngrt.army.mil	STEVENS MILL ROAD, AUBURN	Attn: MEARNIG-DFE	ME	04210-3803

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	ST	Zip
NGB	ME-ARNG, BANGOR INTERNATIONAL AIRPORT TS	MAJ TIM BOWMAN	207-626-4395	207-626-4553	bowman@me-ngrnet.army.mil	CRAM ROAD, BANGOR	ME	04411-
NGB	ME-ARNG, CASWELL TS	MAJ TIM BOWMAN	207-626-4395	207-626-4395	bowman@me-ngrnet.army.mil	CASWELL TOWNSHIP, CASWELL	ME	04750-
NGB	ME-ARNG, GARDINER TS	MAJ TIM BOWMAN	207-626-4395	207-626-4553	bowman@me-ngrnet.army.mil	RTE 26, GARDINER	ME	04345-
NGB	ME-ARNG, HOLLIS PLAINS TS	MAJ TIM BOWMAN	207-626-4395	207-626-4553	bowman@me-ngrnet.army.mil	HARDSCRABBLE ROAD, HOLLIS	ME	04042-
NGB	ME-ARNG, PLYMOUTH TS	MAJ TIM BOWMAN	207-626-4395	207-626-4553	bowman@me-ngrnet.army.mil	CONDIN ROAD, PLYMOUTH	ME	04953-
NGB	ME-ARNG, RILEY-BOG BROOK TS	MAJ TIM BOWMAN	207-626-4395	207-626-4553	bowman@me-ngrnet.army.mil	RTE 2, GILEAD, MAINE	ME	04217-
NGB	MN-ARNG, CAMP GRAYLING	LARRY JACOBS	517-348-7621 ext.3429	517-348-3786	ljacobs@osiris.csu.uluc.edu	BLDG. 30	MI	49739
NGB	MN-ARNG, CAMP RIPLEY	MARTIN SKOGlund	320-632-7201	320-632-7702	skoglunn@fmo.dna.state.mn.us	PO BOX 150, LITTLE FALLS	MNAG-CRC-EN	56345
NGB	MO-NGB, CAMP CLARK	EUGENE YOUNG	573-526-9418	573-526-9009	N/A	2302 MILITIA DR., SKELTON TRAINING SITE, JEFFERSON CITY	Attr:NGMO-RPE-N	MO 65101
NGB	MO-NGB, CAMP CROWDER	EUGENE YOUNG	573-526-9418	573-526-9009	N/A	2302 MILITIA DR., SKELTON TRAINING SITE, JEFFERSON CITY	Attr:NGMO-RPE-N	MO 65101
NGB	MO-NGB, MACON TS	EUGENE YOUNG	573-526-9418	573-526-9009	N/A	2302 MILITIA DR., SKELTON TRAINING SITE, JEFFERSON CITY	Attr:NGMO-RPE-N	MO 65101
NGB	MO-NGB, SKELTON TS	EUGENE YOUNG	573-526-9418	573-526-9009	N/A	2302 MILITIA DR., SKELTON TRAINING SITE, JEFFERSON CITY	Attr:NGMO-RPE-N	MO 65101
NGB	MO-NGB, TRUMAN TS	EUGENE YOUNG	573-526-9418	573-526-9009	N/A	2302 MILITIA DR., SKELTON TRAINING SITE, JEFFERSON CITY	Attr:NGMO-RPE-N	MO 65101
NGB	MO-NGB, WAPPAPELLO TS	EUGENE YOUNG	573-526-9418	573-526-9009	N/A	2302 MILITIA DR., SKELTON TRAINING SITE, JEFFERSON CITY	Attr:NGMO-RPE-N	MO 65101
NGB	MS-ARNG, CAMP MCCAIN	MAJ ROBERT A. PIAZZA	601-973-6109	601-973-6143	pizzar@ngms.state.ms.us	1410 RIVERSIDE DRIVE, JACKSON	Attr: NGMS-FMO-E	MS 39202
NGB	MS-ARNG, CAMP SHELBY	MAJ ROBERT A. PIAZZA	601-973-6109	601-973-6143	pizzar@ngms.state.ms.us	1410 RIVERSIDE DRIVE, JACKSON	Attr: NGMS-FMO-E	MS 39202
NGB	ND-ARNG, CAMP GRAFTON	MAJ GARY W. YANTZER	701-224-5287	701-224-5246	yantzer@osiris.cos.uluc.edu	RR5, BOX 278A, DEVILS LAKE	Attr: AGND-IRE-E	ND 58301-9235

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
NGB	ND-ARNG, CAMP GRAFTON SOUTH	MAJ. GARY W. YANTZER	701-224-5287	701-224-5246	yantzer@osiris.cos.uiuc.edu	RR5, BOX 278A, DEVILS LAKE	Attn: AGND-IRE-E	ND	58301-9235
NGB	NE-ARNG	CPT DAVID WUNIBALD	402 471-7136	402 471-7143	NA	1300 MILITARY RD. FMO-E	ATTN: ENV PROTECTION MGR	NE	68508-1090
NGB	NE-ARNG, CAMP ASHLAND	CPT VIC SIEDLER	402 944-2150	402 944-2266	NA	ASHLAND, NE	Attn: TRAINING SITE MANAGER	NE	68003-3801
NGB	NE-ARNG, HASTINGS TS	MAJ DAVID PETERSON	402 463-7192	402 463-1927	NA	6700 EAST J ST, HASTINGS	Attn: TRAINING SITE MANAGER	NE	68901-9435
NGB	NE-ARNG, MEAD TS	CPT VIC SIEDLER	402 944-2150	402 944-2266	NA	RD 1, BOX 104B, BLDG 38	Attn: TRAINING SITE MANAGER	NE	68041-9725
NGB	NH-ARNG, REGIONAL TRAINING INSTITUTE	ZACHARY BOYAJIAN	603-228-1135 X1440	603-225-1213	bojian@nh-nngt.army.mil	P.O. BOX 280, ROUTE 128 CENTER STRAFFORD	Attn: NHAG-FM-EV	NH	03815-0280
NGB	NH-ARNG, STATE MILITARY RESERVATION	ZACHARY BOYAJIAN	603-228-1135 X1439	603-225-1212	bojian@nh-nngt.army.mil	4 PEMBROKE ROAD, CONCORD	Attn: NHAG-FM-EV	NH	03301-5652
NGB	NJ-ARNG NEW JERSEY NATIONAL GUARD	DEAN L. ARRIGHI	609-530-7136	609-530-6880	arrighi@dmava.state.nj.us	101 EGGERT CROSSING ROAD, LAWRENCEVILLE	Attn: ID-OEC	NJ	08648-2805
NGB	NJ-ARNG, SEA GIRT NG TRAINING CTR	DONALD BECK	908-974-5950	908-974-5994	arrighi@dmava.state.nj.us	P.O. BOX 251, SEA GIRL	Attn: SUPERINTENDANT	NJ	08750-0251
NGB	NM-ARNG AT CAMEL TRACKS TS	ROBERT CONCHA	505-474-1809	505-474-1641		47 BATAAN BOULEVARD, SANTA FE	Attn: NMAG-AEN-EN	NM	87505-4695
NGB	NV-ARNG CLARK COUNTY TS	LOREN BRAZELL	702-887-7276	702-884-8450		2601 S. CARSON ST., CARSON CITY	USPFO-FMO-ENV	NV	89701
NGB	NV-ARNG, STEAD TS	LOREN BRAZELL	702-887-7276	702-884-8450		2601 S. CARSON ST., CARSON CITY	USPFO-FMO-ENV	NV	89701
NGB	NY-ARNG, CAMP SMITH WARNECKE	MAJ MARK WARNECKE	518-786-4318	518-786-4319	envny@ny-nngt.army.mil	BLDG 501, PEAKSKILL	MNFE-EC	NY	10566-5000
NGB	OK-ARNG, CAMP GRUBER	NANCY DAVIS	918-487-6223	918-487-6009	none	P.O. BOX 29, BRAGGS	Attn: OKCG-FE-ENV	OK	74423-0029
NGB	OR-ARNG, CAMP ADAIR	GREG MITCHELL	503-945-3851	503-945-3584	gregory.a.mitchell@state.or.us	OREGON MILITARY ACADEMY 701 MONMOUTH AVE. N. MONMOUTH	ATTN: AROPT-MA	OR	97361-1021
NGB	OR-ARNG, CAMP RILEA	GREG MITCHELL	503-945-3851	503-945-3584	gregory.a.mitchell@state.or.us	RT. 2, P.O.BOX 497E, WARRENTON	ATTN: POST CDR	OR	97146-9711
NGB	OR-ARNG, CENTRAL OREGON TS	GREG MITCHELL	503-945-3851	503-945-3584	gregory.a.mitchell@state.or.us	875 SW SIMPSON AVE., BEND	ATTN: 1-82 CAV	OR	97702-3118
NGB	PA-ARNG, FT INDIANTOWN GAP	JEFF OLSEN	717-861-8342	717-861-8249	envpa@pa-nngt.ngb.army.mil	PADMVA, FT. INDIANTOWN GAP, ANNVILLE	ATTN: ENVIRONMENTAL SECTION	PA	17003-5002

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
NGB	RI-ARNG, COMMAND READINESS CENTER	CW2 HARRY J. FRANCIS	401-457-4234	401-457-4289	fmonir@amngrc-emh2.army.mil	645 NEW LONDON AVE., CRANSTON	Attn: TAGRI-ARI	RI	02920-3097
NGB	SC-ARNG, Leesburg TS	C. Bryan Hall	803-806-2236	(803)806-2277	envts@netside.com	5401 Leesburg Road	ATTN: TAG-OT-TS-EN	SC	29044
NGB	TN-ARNG, CATOOSA TS	JERRY MOSLEY	706-935-4897	706-965-3508		43 PISTOL RANGE RD, TUNNEL HILL, GA.	Attn: FACILITY MANAGER	GA	30755-9998
NGB	TN-ARNG, GRUBBS/KYLE TC TS	JAMES WICKER	616-355-3778	615-355-3734		SMYRNA AIRPORT, BUILDING 602, SMYRNA, KNOXVILLE	Attn: TRAINING SITE HQ	TN	37167
NGB	TN-ARNG, JOHN SEVIER RANGE	VERNON CALLAHAN	615 423-6655			2327 RIFLE RANGE ROAD,	Attn: FACILITY SUPERVISOR	TN	21122
NGB	TN-ARNG, MILANTS	JERRY YEARWOOD	901-783-3975	901-783-3901		RT# 1, BOX 3 325 ARSENAL LANE, LAVINIA	Attn: FACILITY MANAGER	TN	38348-9701
NGB	TN-ARNG, TULLAHOMA TS	HARVEY WHITE	615-454-1964	615-454-1965		400 INDUSTRIAL BLVD, TULLAHOMA, TN	Attn: FACILITY MANAGER	TN	37388
NGB	TX-ARNG, Adelicks Reservoir	James Resner	512-465-5226	512-465-5141	jresner@worldnet.att.net	PO Box 5218	Attn: AGT-X-EV	TX	78763-5218
NGB	TX-ARNG, Camp Barkley	James Resner	512-465-5226	512-465-5141	jresner@worldnet.att.net	PO Box 5218	Attn: AGT-X-EV	TX	78763-5218
NGB	UT-ARNG, CEDAR CITY ARMORY	DOUGLAS JOHNSON	801 576-3960	801 576-3734	NA	12854 SOUTH MINUTEMAN DRIVE, P.O. BOX 1776, DRAPER		UT	84020-1777
NGB	UT-ARNG, ST. GEORGE ARMORY	DOUGLAS JOHNSON	801 576-3960	801 576-3734	NA	12853 SOUTH MINUTEMAN DRIVE, P.O. BOX 1776, DRAPER		UT	84020-1776
NGB	VA-ARNG	EILEEN WILLIAMS	804-775-9427	804-775-9427	eileen@osiris.uiuc.cso.edu	VAFM-E PRN 160, 600 EAST BROAD ST. RICHMOND, VA 23219	Attn: VAFM-E	VA	23219
NGB	VI-ARNG	CHARLES H. MCGREGOR JR.	809 778-2176	809 778-3282		4031 LA GRANDE PRINCESSE, LOT 1B	Attn: VI-CFMD-E	VI	00822-4853
NGB	VI-ARNG, ETHAN ALLEN AFB, TS	LTC NYE/MAJ BOUCHARD	802-654-0300	802-654-0305	envvt@vt-vnet.army.mil	BLDG #5, CAMP JOHNSON, COLCHESTER	Attn: VT-FE	VT	05446-3004
NGB	VI-ARNG, ETHAN ALLEN FIRING RANGE	LTC NYE/MAJ BOUCHARD	802-654-0300	802-654-0305	envvt@vt-vnet.army.mil	BOX 57, LEE RIVER RD, EAFL, JERICHO	Attn: VT-FE (Bldg #5)	VT	5465
NGB	WA-ARNG, CAMP MURRAY	TED ARNOLD	206-512-8466	206-512-8904	arnold@ng.state.wa.us	BLDG 36, CAMP MURRAY, TACOMA	Attn: ENVIRONMENTAL OFFICE	WA	98430-5054
NGB	WI-ARNG	Kerry Nicholls	608-242-3359	608-242-3371	NA	2400 Wright Street, P.O. Box 14587, Madison	Attn: WIAR-F	WI	53714-0587
NGB	WY-ARNG, CAMP GUERNSEY	DAVID PALMER	307-772-5285	307-772-5804	palmerd@wy-iso.army.mil	5500 BISHOP BLVD., CHEYENNE	Attn: AGWY-FMO-EEB	WY	82009
TRADOC	CARLISLE BARRACKS					C/O HQ TRADOC, FT MONROE, VA 23651	Attn: ATBO-FIN	PA	

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
TRADOC	FT BENNING	RANDY DRUCKMAN	706 544-7319	706 544-6570		USAIC, DPW-NRMB BLDG 5884 FT BENNING, GA. 31905	ATTN: ATZB-PWN-R	GA	31905
TRADOC	FT BLISS	RAFAEL D. CORRAL	915-568-6977	915-568-6979	rafael@bliss-envt.army.mil	BUILDING 624, FORT BLISS USAG, FORT CHAFFEE BLDG 1407, WASHINGTON BLVD	Attn: ATZC-DOE-C Attn: ATZR-ZF Attn: ATZF-PWE	TX	79916 72905 23604
TRADOC	FT CHAFFEE	JERRY STURDY	501-484-2883	501-484-2230					
TRADOC	FT EUSTIS	TERRY SANDERS	757-878-2375	757-878-2375					
TRADOC	FT GORDON	KEN BOYD	706-791-2403	706-791-8245	boyd@enrm02.gordon.army.mil	11TH AVE, BLDG. 2214, FT. GORDON	Attn: ATZH-DIE, ENVIRONMENTAL CHIEF	GA	30905-5040
TRADOC	FT HUACHUCA	SHERIDAN STONE	520-533-7084	520-533-3043	POC EMAIL	COMMANDER, USAG, FT HUACHUCA	ATTN: ATZS-EHB	AZ	85613-6000
TRADOC	FT JACKSON	BRUCE COLE (PLANTS) 'BILL GATES' (ANIMALS)	803-751-7927 (Cole) 803-751-6856 (Gates)	803-751-5916	N/A	USATC & FORT JACKSON	ATTN: ATZJ-PWN-NR	SC	28207-5670
TRADOC	FT KNOX	DONALD SHEROAN	502 624-7373	502 624-1868					
TRADOC	FT LEE	ELIZABETH SCHOLL	804-734-3660	804-734-3474	escholl@lee-dns.army.mil	DPW, F&W SECTION, BLDG 112, FT KNOX	ATTN: ATZK-PWE	KY	40121-5000
TRADOC	FT MCCLELLAN	BILL GARLAND	205-848-7398	205-848-5617	garlandb@mcclellan-emh2.army.mil	1816 SHOP ROAD, FT LEE DIRECTORATE OF ENVIRONMENT, BLDG. 141A 13TH AVE, FT. McCLELLAN HQ, TRADOC	ATTN ATZM EMO ATTN: ATZN-EM	VA	23801-1604 AL
TRADOC	FT MONROE	BOB ANDERSON	804-727-2077	804-727-2362	andersonj@emh1.monroe.army.mil	US Army Aviation Center and Ft Rucker	ATBO-FN	VA	23651
TRADOC	Ft Rucker	MAYO C. OR SPILLERS,D.	334-255-2416/ 9363	334-255-2058	CHARLES_MAYO@RUCKER-EMH4.AR MY MIL OR DANIEL_SPILLERS@RUCKER-EMH4.ARMY.MIL		ATZQ-DPW-EN	AL	36362-5000
TRADOC	FT SILL	GLEN WAMPLER	405-442-4324	405-442-7207	barnett@stl-emh1.army.mil	HQ USAFACFS DIRECTORATE OF ENVIRONMENTAL QUALITY	ATTN: ATZR-BN	OK	73503
TRADOC	PRESIDIO OF MONTEREY	JANE HOLTE	408-242-7917	408-242-6816	HOLTEJ@POM-EMH1.ARMY.MIL	PRESIDIO OF MONTEREY, MONTEREY	ATTN: ATZP-EP	CA	93944-5006
TRADOC	PRESIDIO OF MONTEREY (POM) ANNEX	JANE HOLTE	408-242-7917	408-242-6816	HOLTEJ@POM-EMH1.ARMY.MIL	PRESIDIO OF MONTEREY, MONTEREY	ATTN: ATZP-EP	CA	93944-5006
USARC	124TH RSC	C/O TOM SINCLAIR	404-629-8217	404-629-8229	sinclair@usarc-emh1.army.mil	C/O HQ USARCOM, 3800 N. CAMP CREEK PKWAY SW, ATLANTA	AFRC-ENP-NC	??	
USARC	63RD RSC	C/O TOM SINCLAIR	404-629-8217	404-629-8229	sinclair@usarc-emh1.army.mil	C/O HQ USARCOM, 3800 N. CAMP CREEK PKWAY SW, ATLANTA	AFRC-ENP-NC	??	

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
USARC	65TH RSC	C/O TOM SINCLAIR	404-629-8217	404-629-8229	sinclair@usarc-emh1.army.mil	C/O HQ USARCOM, 3800 N. CAMP CREEK PKWAY SW, ATLANTA	AFRC-ENP-NC	??	
USARC	77TH RSC	CIO TOM SINCLAIR	404-629-8217	404-629-8229	sinclair@usarc-emh1.army.mil	CIO HQ USARCOM, 3800 N. CAMP CREEK PKWAY SW, ATLANTA	AFRC-ENP-NC	??	
USARC	88TH RSC	CIO TOM SINCLAIR	404-629-8217	404-629-8229	sinclair@usarc-emh1.army.mil	CIO HQ USARCOM, 3800 N. CAMP CREEK PKWAY SW, ATLANTA	AFRC-ENP-NC	??	
USARC	90TH RSC	CIO TOM SINCLAIR	404-629-8217	404-629-8229	sinclair@usarc-emh1.army.mil	CIO HQ USARCOM, 3800 N. CAMP CREEK PKWAY SW, ATLANTA	AFRC-ENP-NC	??	
USARC	94TH RSC	CIO TOM SINCLAIR	404-629-8217	404-629-8229	sinclair@usarc-emh1.army.mil	CIO HQ USARCOM, 3800 N. CAMP CREEK PKWAY SW, ATLANTA	AFRC-ENP-NC	??	
USARC	96TH RSC	CIO TOM SINCLAIR	404-629-8217	404-629-8229	sinclair@usarc-emh1.army.mil	CIO HQ USARCOM, 3800 N. CAMP CREEK PKWAY SW, ATLANTA	AFRC-ENP-NC	??	
USARC	DEVENS RFTA	TOM POOLE	508-796-2747	508-796-3699		DPW, ENV. DIV., FT DEVENS	ATTN: AFRC-FMD-DPW- EM	MA	01433-5190
USARC	FT HUNTER LIGGETT	LIZ CLARK	408-386-2791	408-386-2787		P.O. BOX 7090, FORT HUNTER LIGGETT	ATTN: AFRC-EMH-ENV	CA	93928-7090
USARC	FT MCCOY	TIM WILDER	608-388-5579	608-388-5459	wildert@mccoy-emh1.army.mil	2171 S. 8TH AVE., FT. MCCOY	ATTN: AFRC-FM-PWE	WI	54656-5163
USARC	FT PICKETT	ALAN DYCK	804-292-8501	804-292-2518	dycka@juno.com	HQ, USAG, FORT PICKETT, BLACKSTONE	ATTN: AFRC-FMP-PW	VA	23824-5000
USARC	MARTINEZ RESERVE CENTER (81ST)	JOHN NETTLES	305-378-4822	305-378-4816		13601 S.W. 137TH AVE., PERRINE	ATTN: AFRC	FL	33177-2500
USARC	PARKS RFTA	MARSHALL MARIK	510-803-5638	510-803-5639	N/A	BLDG. 790, 5TH ST., DUBLIN	ATTN: AFRC-FMC-ENV	CA	94568-5201
USARPAC	DILLINGHAM TA	STEVE KIM	808-656-2878 x1050	808-656-1039	N/A	US ARMY GARRISON, HAWAII, SCHOFIELD BARRACKS	Attn: APV/G-GWV	HI	96857-5000
USARPAC	FT GREELY	WILLIAM GOSSWEILER	907-384-3017	907-384-3047	N/A	730 QUARTERMASTER RD	Attn: APVR-RPW-EV	AK	99805-6500
USARPAC	FT RICHARDSON	WILLIAM GOSSWEILER	907-384-3017	907-384-3047	N/A	730 QUARTERMASTER RD	Attn: APVR-RPW-EV	AK	99805-6500
USARPAC	FT WAINWRIGHT	WILLIAM GOSSWEILER	907-384-3017	907-384-3047	N/A	730 QUARTERMASTER RD	Attn: APVR-RPW-EV	AK	99805-6500
USARPAC	KAHUKU TA	STEVE KIM	808-656-2878 x1050	808-656-1039	N/A	US ARMY GARRISON, HAWAII, SCHOFIELD BARRACKS	Attn: APV/G-GWV	HI	96857-5000

MACOM	Installation	POC	POC phone	POC fax	POC E-mail	Street address	Attention line	ST	Zip
USARPAC	KAWAIILOA TA	STEVE KIM	808-656-2878 x1050	808-656-1039	N/A	US ARMY GARRISON, HAWAII SCHOFIELD BARRACKS	Attn: APVG-GWV	HI	96857-5000
USARPAC	MAKUA MILITARY RESERVATION	STEVE KIM	808-656-2878 x1050	808-656-1039	N/A	US ARMY GARRISON, HAWAII, SCHOFIELD BARRACKS	Attn: APVG-GWV	HI	96857-5000
USARPAC	POHAKULOA TA	Trisha Tierney	808-969-3340	808-523-1390	ptaenvof@schofield-emh1.army.mil	36 MILE MARKER, HIGHWAY 200, PTA	Attn: APVG-GP-ENV	HI	96556
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	STEVE KIM	808-656-2878 x1050	808-656-1039	N/A	US ARMY GARRISON, HAWAII, SCHOFIELD BARRACKS	Attn: APVG-GWV	HI	96857-5000
USMA	US MILITARY ACADEMY, WEST POINT	JAMES BEEMER	914-938-2314	914-938-2529	yj6936@westpoint-emh2.army.mil	SUPERINTENDENT, U.S. MILITARY ACADEMY, WEST POINT	Attn: MAEN-EV-NR	NY	10996

## Appendix B: Frequency of Occurrence for Onsite TEPC species

Scientific Name	Common Name	Fed stat	Category	Number of installations where species occurs
ACHATINELLA ROSEA	PUPU KUAHIWI	E	SNA	1
ACHATINELLA APEXFULVA	PUPU KUAHIWI	E	SNA	2
ACHATINELLA BULIMOIDES	PUPU KUAHIWI	E	SNA	1
ACHATINELLA BYRONII	PUPU KUAHIWI	E	SNA	2
ACHATINELLA DECIPIENS	PUPU KUAHIWI	E	SNA	2
ACHATINELLA LEUCORRAPHE	PUPU KUAHIWI	E	SNA	2
ACHATINELLA LILA	PUPU KUAHIWI	E	SNA	1
ACHATINELLA LIVIDA	PUPU KUAHIWI	E	SNA	1
ACHATINELLA MUSTELINA	PUPU KUAHIWI	E	SNA	2
ACHATINELLA PULCHERRIMA	PUPU KUAHIWI	E	SNA	1
ACHATINELLA SOWERBYANA	PUPU KUAHIWI	E	SNA	2
ACHATINELLA SWIFTII	PUPU KUAHIWI	E	SNA	2
ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	2
ADENOPHORUS PERIENS	NONE	E	PLA	2
ALECTRYON MACROCOCCUS VAR. MACROCOCCUS	ALA'ALAHUA, MAHOE	E	PLA	2
ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	9
AL SINIDENDRON OBOVATUM	NONE	E	PLA	1
AL SINIDENDRON TRINERVE	NONE	E	PLA	1
AMBYSTOMA CALIFORNIENSE (=A. TIGRINUM C.)	AMBYSTOMA CALIFORNIENSE (=A. TIGRINUM C.)	C	AMP	2
ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	4
ANNIELLA PULCHRA NIGRA	CALIFORNIA BLACK LEGLESS LIZARD	PE	REP	1
APHELOCOMA COERULESCENS (=A. C. COERULESCENS	FLORIDA SCRUB JAY	T	BIR	1
APIOS PRICEANA	PRICE'S POTATO BEAN	T	PLA	1
ARCTOMECON HUMILIS	DWARF BEARCLAW POPPY	E	PLA	1
ASPLENIUM FRAGILE VAR. INSULARE	FRAGILE FERN	E	PLA	1
ASTRAGALUS JAEGERIANUS	LANE MOUNTAIN MILK VETCH	C	PLA	1
BANARA VANDERBILTII	PALO DE RAMON	E	PLA	1
BONAMIA MENZIESII	NONE	E	PLA	1
BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL	T	CRU	2
BUFO MICROSCAPHUS CALIFORNICUS	TOAD, ARROYO SOUTHWESTERN	E	AMP	1
BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	4
BUXUS VAHLII	VAHL BOXWOOD	E	PLA	1
CAESALPINIA (=MEZONEURON) KAVAIENSE	UHIUHI	E	PLA	1
CANIS LUPUS	WOLF, GRAY	T	MAM	1
CENCHRUS AGRIMONIOIDES	KAMANOMANO (=SANDBUR, AGRIMONY)	PE	PLA	2

Scientific Name	Common Name	Fed stat	Category	Number of installations where species occurs
CHAMAESYCE (=EUPHORBIA) DELTOIDEA SSP. DELTOIDEA	DELTOID SPURGE	E	PLA	1
CHAMAESYCE ROCKII	AKOKO	PE	PLA	2
CHARADRIUS ALEXANDRINUS NIVOSUS	PLOVER, WESTERN SNOWY	T	BIR	1
CHARADRIUS MELODUS	PLOVER, PIPING	T	BIR	2
CHARADRIUS MONTANUS	PLOVER, MOUNTAIN	C	BIR	2
CHASIEMPIST SANDWICHENSIS IBIDIS	OAHU 'ELEPAIO	C	BIR	3
CHLOROGALIUM PURPUREUM VAR. PURPUREUM	PURPLE AMOLE	C	PLA	1
CHORIZANTHE PUNGENS VAR. PUNGENS	MONTEREY SPINEFLOWER	T	PLA	1
CHORIZANTHE ROBUSTA	ROBUST SPINEFLOWER	E	PLA	1
CIRSIUM FONTINALE VAR. OBISPOENSE	THISTLE, CHORRO CREEK BOG	E	PLA	1
CLEMATIS HIRSUTISSIMA VAR. ARIZONICA	ARIZONA LEATHER FLOWER	C	PLA	1
CLEMMYS MUHLENBERGII	TURTLE, BOG (NORTHERN POP.)	C	REP	1
COLUBRINA OPPOSITIFOLIA	KAUILA	E	PLA	2
CORYPHANTHA SNEEDII VAR. SNEEDII (=ESCOBARIA S., MAMMILLARIA S.)	SNEED PINCUSHION CACTUS	E	PLA	1
CYANEA ACUMINATA	OHA, HAHA	PE	PLA	2
CYANEA GRIMESIANA SSP. GRIMESIANA	OHA, HAHA	E	PLA	2
CYANEA KOOLAUENSIS	OHA, HAHA	PE	PLA	3
CYANEA LONGIFLORA	OHA, HAHA	PE	PLA	3
CYANEA SUPERBA SSP. SUPERBA	OHA	E	PLA	2
CYPERUS TRACHYSANTHOS	PU'UKA'A	PE	PLA	2
CYPRINELLA CAERULEA	BLUE SHINER	T	FIS	1
CYRTANDRA DENTATA	HA'IWALE	PE	PLA	1
CYRTANDRA SUBUMBELLATA	HA'IWALE	PE	PLA	1
CYRTANDRA VIRIDIFLORA	HA'IWALE	PE	PLA	1
DAPHNOPTIS HELLERANA	NONE	E	PLA	1
DELISSSEA SUBCORDATA	'OHA	PE	BIR	1
DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	BIR	2
DENDROICA KIRTLANDII	WARBLER (WOOD), KIRTLAND'S	E	BIR	1
DIELLIA FALCATA	NONE	E	PLA	2
DRYMARCHON CORAIS COUPERI	SNAKE, EASTERN INDIGO	T	REP	2
DUBAUTIA HERBSTOBATAE	NA'ENA'E	E	PLA	1
ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	E	PLA	2
ECHINOCACTUS HORIZONTALIUS VAR. NICHOLII	NICHOL'S TURK'S HEAD CACTUS	E	PLA	1
EMPidonax traillii extimus	FLYCATCHER, SOUTHWESTERN WILLOW	E	BIR	2
EPICRATES INORNATUS	PUERTO RICAN BOA	E	REP	1
ERIGERON BASALTICUS	BASALT DAISY	C	PLA	1
ERIGERON LEMMONII	LEMMON FLEABANE	C	PLA	1
ETHEOSTOMA CRAGINI	ARKANSAS DARTER	C	FIS	1
EUGENIA KOOLAUENSIS	NIOI	E	PLA	1
EUPHILOTES ENOPTES SMITHI	SMITH'S BLUE BUTTERFLY	E	INS	1
EUPHORBIA HAELEELEANNA	'AKOKO	PE	PLA	1
FALCO FEMORALIS SEPTENTRIONALIS	FALCON, NORTHERN APLOMADO	E	BIR	1

Scientific Name	Common Name	Fed stat	Category	Number of installations where species occurs
<i>FALCO PEREGRINUS</i>	FALCON, PEREGRINE	E(S/A)	BIR	9
<i>FALCO PEREGRINUS ANATUM</i>	FALCON, AMERICAN PEREGRINE	E	BIR	11
<i>FELIS CONCOLOR COUGAR</i>	EASTERN COUGAR	E	MAM	1
<i>FLUEGGEA NEOWAWRAEA</i>	MEHAMEHAME	E	PLA	1
<i>FULICA AMERICANA ALAI</i>	HAWAIIAN COOT	E	BIR	1
<i>GALLINULA CHLOROPUS SANDVICENSIS</i>	HAWAIIAN GALLINULE	E	BIR	2
<i>GARDENIA MANNII</i>	NANU	PE	PLA	3
<i>GILIA TENUIFLORA SSP. ARENARIA</i>	MONTEREY SAND GILIA	E	PLA	1
<i>GOPHERUS AGASSIZII</i>	DESERT TORTOISE	T	REP	2
<i>GOPHERUS AGASSIZII (SONORAN POPULATION)</i>	SONORAN POPULATION OF THE DESERT TORTOISE	T(S/A)	REP	1
<i>GOPHERUS POLYPHEMUS</i>	GOPHER TORTOISE	T	REP	1
<i>GRUS AMERICANA</i>	WHOOPING CRANE	E	BIR	1
<i>HALIAEETUS LEUCOCEPHALUS</i>	EAGLE, BALD	T	BIR	51
<i>HAPLOSTACHYS HAPLOSTACHYA</i>	NONE	E	PLA	2
<i>HEDEOMA TODSENII</i>	TODSEN'S PENNYROYAL	E	PLA	1
<i>HEDYOTIS CORIACEA</i>	KIO'ELE	E	PLA	1
<i>HEDYOTIS PARVULA</i>	NONE	E	PLA	1
<i>HELIANTHUS EGGERTII</i>	EGGERT'S SUNFLOWER	PT	PLA	1
<i>HELONIAS BULLATA</i>	SWAMP PINK	T	PLA	1
<i>HEMIGNATHUS MUNROI (=WILSONI)</i>	'AKIAPOLA'AU (HONEYCREEPER)	E	BIR	1
<i>HESPEROMANNA ARBORESCENS</i>	NONE	E	PLA	3
<i>HIMANTOPUS MEXICANUS (=HIMANTOPUS) KNUDSENI</i>	STILT, HAWAIIAN (=AE'O)	E	BIR	1
<i>HOWELLIA AQUATILIS</i>	HOWELLIA, WATER	T	PLA	1
<i>HYMENOXYS TEXANA</i>	TEXAS PRAIRIE DAWN-FLOWER (=TEXAS BITTERWEED)	E	PLA	1
<i>ISODENDRION HOSAKAE</i>	AUPAKA	E	PLA	1
<i>ISODENDRION LAURIFOLIUM</i>	AUPAKA	PE	PLA	1
<i>ISOETES LOUISIANENSIS</i>	LOUISIANA QUILLWORT	E	PLA	1
<i>ISOTRIA MEDEOLOIDES</i>	SMALL WHORLED POGONIA	T	PLA	1
<i>LABORDIA CYRTANDRAE</i>	KAMAKAHALA	PE	PLA	2
<i>LAMPSILIS HIGGINSI</i>	PEARLYMUSSEL, HIGGINS' EYE	E	CLA	1
<i>LASIURUS CINEREUS SEMOTUS</i>	BAT, HAWAIIAN HOARY	E	MAM	8
<i>LEPIDIUM ARBUSCULA</i>	ANAUNAU	PE	PLA	2
<i>LEPTONYCTERIS CURASOAE (=SANBORNI) YERBABUENAE</i>	BAT, LESSER (=SANBORN'S) LONG-NOSED	E	MAM	1
<i>LILAEOPSIS SCHAFFNERIANA SSP. RECURVA</i>	HUACHUCA WATER-UMBEL	PE	PLA	1
<i>LIPOCHAETA TENUIFOLIA</i>	NEHE	E	PLA	1
<i>LIPOCHAETA VENOSA</i>	NONE	E	PLA	2
<i>LOBELIA GAUDICHAUDII SSP. KOOLAUENSIS</i>	OHA, HAHA	PE	PLA	1
<i>LOBELIA NIIHAUENSIS</i>	OHA, HAHA	E	PLA	1
<i>LOBELIA OAHUENSIS</i>	OHA, HAHA	E	PLA	2
<i>LOXIOIDES BAILLEUI</i>	PALILA	E	BIR	1
<i>LOXOPS COCCINEUS COCCINEUS</i>	HAWAII 'AKEPA	E	BIR	2
<i>LYCAEIDES MELISSA SAMUELIS</i>	BUTTERFLY, KARNER BLUE	E	INS	1
<i>LYCOPodium NUTANS</i>	WAWAE'IOLE	E	PLA	1

Scientific Name	Common Name	Fed stat	Category	Number of installations where species occurs
LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	4
MACRHYBOPSIS (=HYBOPSIS) GELIDA	STURGEON CHUB	C	FIS	1
MANDUCA BLACKBURNI	BLACKBURN'S SPHINX MOTH	C	INS	1
MARSHALLIA MOHRII	MOHR'S BARBARA BUTTONS	T	PLA	1
MELICOME LYDGATEI	ALANI	E	PLA	1
MONACHUS SCHAUINSLANDI	HAWAIIAN MONK SEAL	E	MAM	1
MYCTERIA AMERICANA	STORK, WOOD	E	BIR	4
MYOTIS GRISESCENS	GRAY BAT	E	MAM	5
MYOTIS SODALIS	INDIANA BAT	E	MAM	3
MYRSINE JUDDII	KOLEA	PE	PLA	1
NEONYMPHA MITCHELLII FRANCISCI	BUTTERFLY, SAINT FRANCIS' SATYR	E	INS	1
NERAUDIA ANGULATA VAR DENTATA	MA'ALOA	E	PLA	2
NERAUDIA ANGULATA VAR. ANGULATA	MA'ALOA	E	PLA	2
NERAUDIA OVATA	MA'ALOA	PE	PLA	1
NESOCHEM (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR	3
NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	3
NOTHOCESTRUM BREVIFLORUM	AIEA	E	PLA	2
NOTOTRICHUM HUMILE	KULU'I	E	PLA	2
NOTROPIS TOPEKA (=TRISTIS)	TOPEKA SHINER	C	FIS	1
ONCORHYNCHUS CLARKI STOMIAS	GREENBACK CUTTHROAT TROUT	T	FIS	1
OREOMYSTIS (=LOXOPS) MANA	CREEPER, HAWAII	E	BIR	2
OTTOSCHULZIA RHODOXYLON	PALO DE ROSA	E	PLA	1
PALAEOMONIAS ALABAMAE	ALABAMA CAVE SHRIMP	E	CRU	1
PAROREOMYZA (=OREOMYSTIS, =LOXOPS) FLAMMEA	CREEPER, MOLOKAI (=KAKAWAHIE)	E	BIR	3
PHYLLOSTEGIA HIRSUTA	NONE	PE	PLA	2
PHYLLOSTEGIA PARVIFLORA VAR PARVIFLORA	NONE	E	PLA	1
PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	9
PIPERIA YADONII	YADON'S PIPERIA	PE	PLA	2
PLANTAGO PRINCEPS VAR PRINCEPS	LAUKAHI KUAHIWI	E	PLA	1
PLANTAGO PRINCEPS VAR. LONGIBRACTEATA	LAUKAHI KUAHIWI	E	PLA	1
POLYGYRISCUS VIRGINIANUS	SNAIL, VIRGINIA FRINGED MOUNTAIN	E	SNA	1
PORTULACA SCLEROCARPA	PO'E	E	PLA	3
PRITCHARDIA KAALAE	LOULU	PE	PLA	1
PTERIS LIDGATEI	NONE	E	PLA	2
PTERODROMA PHAEOPYGIA SANDWICHENSIS	PETREL, HAWAIIAN DARK-RUMPED	E	BIR	1
PTILIMNIUM NODOSUM	HARPERELLA	E	PLA	1
PUFFINUS AURICULARIS (=PUFFINUS) NEWELLI	SHEARWATER, NEWELL'S TOWNSEND'S (FORMERLY MANX) (=`A`O)	T	BIR	1
PYRGULOPSIS THOMPSONI	SPRINGSNAIL, HUACHUCA	C	SNA	1
RANA AURORA DRAYTONI	FROG, CALIFORNIA RED-LEGGED	PE	AMP	2
RANA SUBAQUAVOCALIS	FROG, RAMSEY CANYON LEOPARD	C	AMP	1
RHODODENDRON CHAPMANII	CHAPMAN'S RHODODENDRON	E	PLA	1
RHUS MICHAUXII	MICHAUX'S SUMAC	E	PLA	2
ROLLANDIA CRISPA [CYANEA CRISPA]	OHA, HAHA	E	PLA	1

Scientific Name	Common Name	Fed stat	Category	Number of installations where species occurs
RUMEX ORTHONEURUS	BLUMER'S DOCK	C	PLA	1
SANICULA MARIVERSA	NONE	E	PLA	1
SANICULA PURPUREA	NONE	PE	PLA	2
SCHIEDEA HOOKERI	NONE	PE	PLA	2
SCHIEDEA KEALIAE	MA'OLI'OLI	PE	PLA	1
SCHIEDEA NUTTALLII	NONE	PE	PLA	1
SCHWALBEA AMERICANA	AMERICAN CHAFFSEED	E	PLA	1
SCUTELLARIA MONTANA	LARGE-FLOWERED SKULLCAP	E	PLA	1
SESBANIA TOMENTOSA	OHAI	E	PLA	1
SILENE HAWAIIENSIS	HAWAIIAN CATCHFLY	T	PLA	1
SILENE LANCEOLATA	LANCELEAF CATCHFLY	E	PLA	2
SOLANUM INCOMPLETUM	SPINY POPOLO	E	PLA	1
SOLIDAGO HOUGHTONII	HOUGHTON'S GOLDENROD	T	PLA	1
SPERMOLEPIS HAWAIIENSIS	HAWAIIAN PARSLEY	E	PLA	2
SPEYERIA ZERENE HIPPOLYTA	OREGON SILVERSPOOT BUTTERFLY	T	INS	1
SPIRANTHES DILUVIALIS	UTE LADIES'-TRESSES	T	PLA	1
STENOZYNE ANGUSTIFOLIA	NONE	E	PLA	2
STERNA ANTILLARUM	TERN, LEAST	E	BIR	2
STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	4
TETRAMOLOPIUM ARENARIUM	MAUNA KEA PAMAKANI	E	PLA	1
TETRAMOLOPIUM ARENARIUM ARENARIUM	NONE	E	PLA	2
TETRAMOLOPIUM FILIFORME VAR POLYPHYLLUM	NONE	E	PLA	1
TETRAPLASANDRA GYMNOCARPA	'OHE-'OHE	E	PLA	3
TRIFOLIUM STOLONIFERUM	RUNNING BUFFALO CLOVER	E	PLA	1
TRILLIUM RELIQUUM	RELICT TRILLIUM	E	PLA	1
URERA KAALAE	OPUHE	E	PLA	1
URSUS AMERICANUS FLORIDANUS	FLORIDA BLACK BEAR	C	MAM	1
VIGNA O-WAHUENSIS	NONE	E	PLA	1
VIOLA CHAMISSONIANA SSP CHAMISSONIANA	PAMAKANI	E	PLA	2
VIOLA OAHUENSIS	NONE	PE	PLA	2
VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	4
VIREO BELLII PUSILLUS	VIREO, LEAST BELL'S	E	BIR	2
VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	E	MAM	2
VULPES VELOX	SWIFT FOX	C	MAM	1
XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA	2
ZANTHOXYLUM HAWAIIENSE	A'E	E	PLA	2

## Appendix C: Number of Onsite TEPC Species, by Category, for Each Installation

MACOM	Installation	E	T	PE	PT	C	Total
AMC	ABERDEEN PROVING GROUND		1				1
AMC	ARMY RESEARCH LABS (ADELPHI)		1				1
AMC	ALABAMA AAP						0
AMC	ANNISTON ARMY DEPOT	1					1
AMC	CORNHUSKER ARMY AMMUNITION PLANT						0
AMC	DETROIT ARSENAL						0
AMC	DUGWAY PROVING GROUND		1				1
AMC	HAWTHORNE ARMY DEPOT						0
AMC	HOLSTON AAP		1				1
AMC	IOWA AAP						0
AMC	JEFFERSON PROVING GROUND	1		1			2
AMC	JOLIET AAP						0
AMC	KANSAS ARMY AMMUNITION PLANT						0
AMC	LAKE CITY ARMY AMMUNITION PLANT						0
AMC	LETTERKENNY ARMY DEPOT					1	1
AMC	BLUEGRASS ARMY DEPOT	1					1
AMC	LIMA ARMY TANK PLANT						0
AMC	LONGHORN AAP		1				1
AMC	LOUISIANA AAP		1				1
AMC	MCALESTER AAP	1					1
AMC	MILAN AAP						0
AMC	FORT MONMOUTH						0
AMC	NATICK RD&E CENTER						0
AMC	NEWPORT CHEMICAL DEPOT		1				1
AMC	PINE BLUFF ARSENAL		2				2
AMC	PICATINNY ARSENAL TACOM-ARDEC	2	1				3
AMC	CHARLES MELVIN PRICE SUPPORT CENTER						0
AMC	PUEBLO DEPOT ACTIVITY						0
AMC	RADFORD AAP	1					1
AMC	RED RIVER ARMY DEPOT						0
AMC	REDSTONE ARSENAL	3	3				6
AMC	ROCK ISLAND ARSENAL		1				1
AMC	SAVANNA ARMY DEPOT ACTIVITY	1	1				2
AMC	SENECA ARMY DEPOT ACTIVITY						0
AMC	SIERRA ARMY DEPOT	1	1				2
AMC	SUNFLOWER AAP		1				1
AMC	TOBYHANNA ARMY DEPOT						0
AMC	TOOELE ARMY DEPOT	1	1				2
AMC	TWIN CITIES AAP		1				1
AMC	UMATILLA CHEMICAL DEPOT						0
AMC	VINT HILL FARMS STATION						0
AMC	VOLUNTEER AAP	1					1
AMC	WATERVLIET ARSENAL						0
AMC	WHITE SANDS MISSILE RANGE	3	1				4
AMC	YUMA PROVING GROUND	1	1				2
FORSCOM	FT BRAGG	5					5
FORSCOM	FT BUCHANAN	5					5

MACOM	Installation	E	T	PE	PT	C	Total
FORSCOM	FT CAMPBELL	1	1				2
FORSCOM	FT CARSON	1	4			2	7
FORSCOM	FT DIX						0
FORSCOM	FT DRUM						0
FORSCOM	FT GILLEM						0
FORSCOM	FT HAMILTON						0
FORSCOM	HANCOCK ARMY COMPLEX						0
FORSCOM	FT HOOD	4	1				5
FORSCOM	FT IRWIN		1			1	2
FORSCOM	FT LEWIS		2				2
FORSCOM	FT MC PHERSON						0
FORSCOM	PINON CANYON MANEUVER SITE	1	1			2	4
FORSCOM	FT. POLK	1					1
FORSCOM	FT RILEY	2	2			2	6
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	3	.2				5
FORSCOM	FT TOTTEN						0
FORSCOM	VANCOUVER BARRACKS						0
FORSCOM	YAKIMA TRAINING CENTER			1		1	2
MDW	FT BELVOIR			1			1
MDW	FT A.P. HILL			3			3
MDW	FT MCNAIR						0
MDW	FT GEORGE G. MEADE						0
MDW	FT MEYER						0
MDW	FT RITCHIE						0
MEDCOM	FT SAM HOUSTON		2				2
MEDCOM	FT DETRICK						0
MEDCOM	FITZSIMMONS ARMY MEDICAL CENTER						0
MEDCOM	WALTER REED ARMY MEDICAL CENTER						0
MTMC	MILITARY OCEAN TERMINAL, BAYONNE						0
MTMC	OAKLAND ARMY BASE						0
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	3	2				5
NGB	HI-ARNG, AAHOAKA AND WAILUA RIVER LTA		2				2
NGB	OR-ARNG, CAMP ADAIR						0
NGB	TX-ARNG (ADDICKS RESERVOIR)		1				1
NGB	AL-ARNG						0
NGB	HI-ARNG, ANAHOLA LTA		2	1			3
NGB	NE-ARNG, CAMP ASHLAND						0
NGB	IN-ARNG, ATTERBURY RESERVE FORCES TA			1			1
NGB	ME-ARNG, AUBURN TS						0
NGB	ME-ARNG, BANGOR INTERNATIONAL AIRPORT TS						0
NGB	TX-ARNG, CAMP BARKELEY		1				1
NGB	FL-ARNG, CAMP BLANDING TS		3	4		1	8
NGB	ARTEMUS TRAINING SITE						0
NGB	EASTERN KENTUCKY TRAINING SITE						0
NGB	TN-ARNG, CATOOSA TS						0
NGB	ME-ARNG, CASWELL TS						0
NGB	OR-ARNG, CENTRAL OREGON TS						0
NGB	NV-ARNG, CLARK COUNTY TS	1	1				2
NGB	MO-NGB, CAMP CROWDER	1	1				2
NGB	IA-ARNG, CAMP DODGE						0
NGB	VT-ARNG, ETHAN ALLEN AFB, T.S.						0
NGB	VT-ARNG, ETHAN ALLEN FIRING RANGE						0
NGB	ME-ARNG, GARDINER TS						0
NGB	MI-ARNG, CAMP GRAYLING	1	2				3
NGB	TN-ARNG, GRUBBS/KYLE TC						0
NGB	ND-ARNG, CAMP GRAFTON						0

MACOM	Installation	E	T	PE	PT	C	Total
NGB	ND-ARNG, CAMP GRAFTON SOUTH		1				1
NGB	OK-ARNG, CAMP GRUBER	1					1
NGB	NE-ARNG, HASTINGS TS						0
NGB	ME-ARNG, HOLLIS PLAINS TS						0
NGB	PA-ARNG, FT INDIANTOWN GAP						0
NGB	TN-ARNG, JOHN SEVIER RANGE						0
NGB	AR-ARNG, CAMP JOSEPH T. ROBINSON		1				1
NGB	HI-ARNG, KANAIO LTA	2				1	3
NGB	HI-ARNG, KEAMUKU LTA	15					15
NGB	HI-ARNG, KEKAHA LTA	3					3
NGB	HI-ARNG, KEAUKAHA MILITARY RESERVATION	1					1
NGB	SC-ARNG, LEESBURG TRAINING SITE	3					3
NGB	MD-ARNG, LIL AARON STRAUS WILDERNESS AREA	1					1
NGB	MO-NGB, MACON TS		1				1
NGB	CAMP MALUHIA LTA						0
NGB	IL-ARNG, MARSEILLES TA						0
NGB	MS-ARNG, CAMP MCCAIN						0
NGB	NE-ARNG, MEAD TS						0
NGB	NM-ARNG, CAMEL TRACKS						0
NGB	TN-ARNG, MILAN TS						0
NGB	WA-ARNG, CAMP MURRAY		1				1
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	1	2			1	4
NGB	NE-ARNG						0
NGB	NJ-ARNG NEW JERSEY NATIONAL GUARD						0
NGB	CA-ARNG, CAMP SAN LUIS OBISPO	2		1			3
NGB	ID-ARNG, ORCHARD TA						0
NGB	ME-ARNG, PLYMOUTH TS						0
NGB	HI-ARNG, PU'U PA LTA	10					10
NGB	RI-ARNG, COMMAND READINESS CENTER						0
NGB	OR-ARNG, CAMP RILEA		1				1
NGB	ME-ARNG, RILEY-BOG BROOK TS						0
NGB	MN-ARNG, CAMP RIPLEY		2				2
NGB	CA-ARNG, CAMP ROBERTS	1	2				3
NGB	HI-ARNG, FT RUGER			1			1
NGB	UT-ARNG, ST. GEORGE ARMORY	1					1
NGB	NJ-ARNG, SEA GIRT NG TRAINING CTR						0
NGB	MS-ARNG, CAMP SHELBY	1	1				2
NGB	MO-NGB, SKELTON TS	1	1				2
NGB	NV-ARNG, STEAD TS	1	1				2
NGB	MO-NGB, TRUMAN TS		1				1
NGB	TN-ARNG, TULLAHOMA TS				1		1
NGB	UKUMEHAME FIRING RANGE						0
NGB	VI-ARNG						0
NGB	VA-ARNG						0
NGB	WESTERN KENTUCKY TRAINING SITE	1					1
NGB	WI-ARNG						0
TRADOC	FT BENNING	3	2				5
TRADOC	FT BLISS	3	2				5
TRADOC	CARLISLE BARRACKS						0
TRADOC	FT CHAFFEE	1					1
TRADOC	FT EUSTIS		1				1
TRADOC	FT GORDON	2	1				3
TRADOC	FT HUACHUCA	2	1	1			5
TRADOC	FT JACKSON	3	2				5
TRADOC	FORT KNOX	2	1				3
TRADOC	FT LEE		1				1

MACOM	Installation	E	T	PE	PT	C	Total
TRADOC	FT MCCLELLAN	2	2				4
TRADOC	FT MONROE						0
TRADOC	POM ANNEX	3	2	2			7
TRADOC	PRESIDIO OF MONTEREY (POM)			1			1
TRADOC	FT RUCKER		1				1
TRADOC	FT SILL	1					1
USARC	DEVENS RFTA	1	1				2
USARC	FT HUNTER LIGGETT	4	2			2	8
USARC	MARTINEZ RESERVE CENTER	1					1
USARC	FT MCCOY	2	1				3
USARC	PARKS RFTA			1			1
USARC	FT PICKETT	1	1				2
USARC	124TH RSC						0
USARC	63RD RSC						0
USARC	65TH RSC						0
USARC	77TH RSC						0
USARC	88TH RSC						0
USARC	90TH RSC						0
USARC	94TH RSC						0
USARC	96TH RSC						0
USARPAC	DILLINGHAM TA	6		2			8
USARPAC	FT GREELY	1					1
USARPAC	KAHUKU TA	4		3			7
USARPAC	KAWAIIQA TA	24		13		1	38
USARPAC	MAKUA MILITARY RESERVATION	21		6		1	28
USARPAC	POHAKULOA TA	15	1	1			17
USARPAC	FT RICHARDSON	1					1
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	23		14		1	38
USARPAC	FT WAINWRIGHT	1					1
USMA	US MILITARY ACADEMY, WEST POINT	1	1				2

## Appendix D: Listing of all Onsite and Contiguous TEPC Species for Each Installation, by MACOM

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
AMC	ABERDEEN PROVING GROUND	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	C
AMC	ABERDEEN PROVING GROUND	CICINDELA PURITANA	PURITAN TIGER BEETLE	T	INS	C
AMC	ABERDEEN PROVING GROUND	ETHEOSTOMA SELLARE	DARTER, MARYLAND	E	FIS	C
AMC	ABERDEEN PROVING GROUND	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	C
AMC	ABERDEEN PROVING GROUND	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	ALABAMA AAP	NO SPECIES	NO SPECIES			
AMC	ANNISTON ARMY DEPOT	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA	B
AMC	ARMY RESEARCH LABS (ADELPHI)	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	O
AMC	BADGER AAP	LESPEDEZA LEPTOSTACHYA	PRAIRIE BUSH CLOVER	T	PLA	C
AMC	BLUEGRASS ARMY DEPOT	TRIFOLIUM STOLONIFERUM	RUNNING BUFFALO CLOVER	E	PLA	B
AMC	CHARLES MELVIN PRICE SUPPORT CENTER	NO SPECIES	NO SPECIES			
AMC	CORNHUSKER ARMY AMMUNITION PLANT	NO SPECIES	NO SPECIES			
AMC	DETROIT ARSENAL	NO SPECIES	NO SPECIES			
AMC	DUGWAY PROVING GROUND	CHARADRIUS MONTANUS	PLOVER, MOUNTAIN	C	BIR	C
AMC	DUGWAY PROVING GROUND	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	C
AMC	DUGWAY PROVING GROUND	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	DUGWAY PROVING GROUND	RANA PRETIOSA	FROG, SPOTTED	C	AMP	C
AMC	DUGWAY PROVING GROUND	SPIRANTHES DILUVIALIS	UTE LADIES'-TRESSES	T	PLA	C
AMC	FORT MONMOUTH	NO SPECIES	NO SPECIES			
AMC	HAWTHORNE ARMY DEPOT	NO SPECIES	NO SPECIES			
AMC	HOLSTON AAP	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	INDIANA ARMY AMMUNITION PLANT	MYOTIS GRISESCENS	GRAY BAT	E	MAM	C
AMC	INDIANA ARMY AMMUNITION PLANT	MYOTIS SODALIS	INDIANA BAT	E	MAM	C
AMC	IOWA AAP	NO SPECIES	NO SPECIES			
AMC	JEFFERSON PROVING GROUND	DELISSEA SUBCORDATA	OHA	PE	BIR	O
AMC	JEFFERSON PROVING GROUND	MYOTIS SODALIS	INDIANA BAT	E	MAM	O
AMC	JOLIET AAP	NO SPECIES	NO SPECIES			

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
AMC	KANSAS ARMY AMMUNITION PLANT	NO SPECIES	NO SPECIES			
AMC	LAKE CITY ARMY AMMUNITION PLANT	NO SPECIES	NO SPECIES			
AMC	LETTERKENNY ARMY DEPOT	CLEMMYS MUHLENBERGII	TURTLE, BOG (NORTHERN POP.)	C	REP	O
AMC	LIMA ARMY TANK PLANT	NO SPECIES	NO SPECIES			
AMC	LONGHORN AAP	ALLIGATOR MISSISSIPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	B
AMC	LOUISIANA AAP	ALLIGATOR MISSISSIPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	B
AMC	MCALESTER AAP	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	B
AMC	MILAN AAP	NO SPECIES	NO SPECIES			
AMC	NATICK RD&E CENTER	NO SPECIES	NO SPECIES			
AMC	NEWPORT CHEMICAL DEPOT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	PICATINNY ARSENAL TACOM-ARDEC	CLEMMYS MUHLENBERGII	TURTLE, BOG (NORTHERN POP.)	C	REP	C
AMC	PICATINNY ARSENAL TACOM-ARDEC	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	B
AMC	PICATINNY ARSENAL TACOM-ARDEC	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	PICATINNY ARSENAL TACOM-ARDEC	MYOTIS SODALIS	INDIANA BAT	E	MAM	B
AMC	PINE BLUFF ARSENAL	ALLIGATOR MISSISSIPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	B
AMC	PINE BLUFF ARSENAL	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	PUEBLO DEPOT ACTIVITY	NO SPECIES	NO SPECIES			
AMC	RADFORD AAP	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	E	PLA	C
AMC	RADFORD AAP	POLYGYRISCUS VIRGINIANUS	SNAIL, VIRGINIA FRINGED MOUNTAIN	E	SNA	B
AMC	RAVENNA AAP	ACONITUM NOVEBORACENSE	NORTHERN WILD MONKSHOOD	T	PLA	C
AMC	RAVENNA AAP	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	C
AMC	RAVENNA AAP	MYOTIS SODALIS	INDIANA BAT	E	MAM	C
AMC	RED RIVER ARMY DEPOT	NO SPECIES	NO SPECIES			
AMC	REDSTONE ARSENAL	ALLIGATOR MISSISSIPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	B
AMC	REDSTONE ARSENAL	APIOS PRICEANA	PRICE'S POTATO BEAN	T	PLA	O
AMC	REDSTONE ARSENAL	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	B
AMC	REDSTONE ARSENAL	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	REDSTONE ARSENAL	MYOTIS GRISESCENS	GRAY BAT	E	MAM	B
AMC	REDSTONE ARSENAL	PALAEOMONIAS ALABAMAE	ALABAMA CAVE SHRIMP	E	CRU	B
AMC	ROCK ISLAND ARSENAL	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	SAVANNA ARMY DEPOT ACTIVITY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	SAVANNA ARMY DEPOT ACTIVITY	LAMPSILIS HIGGINSI	PEARLYMUSSEL, HIGGINS' EYE	E	CLA	B
AMC	SAVANNA ARMY DEPOT ACTIVITY	MYOTIS SODALIS	INDIANA BAT	E	MAM	C
AMC	SENECA ARMY DEPOT ACTIVITY	NO SPECIES	NO SPECIES			
AMC	SIERRA ARMY DEPOT	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	B
AMC	SIERRA ARMY DEPOT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	SUNFLOWER AAP	ASCLEPIAS MEADII	MILKWEED, MEAD'S	T	PLA	C
AMC	SUNFLOWER AAP	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	C

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
AMC	SUNFLOWER AAP	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	TOBYHANNA ARMY DEPOT	NO SPECIES	NO SPECIES			
AMC	TOOELE ARMY DEPOT	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	B
AMC	TOOELE ARMY DEPOT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	TWIN CITIES AAP	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	UMATILLA CHEMICAL DEPOT	NO SPECIES	NO SPECIES			
AMC	VINT HILL FARMS STATION	NO SPECIES	NO SPECIES			
AMC	VOLUNTEER AAP	SCUTELLARIA MONTANA	LARGE-FLOWERED SKULLCAP	E	PLA	O
AMC	WATERVLIET ARSENAL	NO SPECIES	NO SPECIES			
AMC	WHITE SANDS MISSILE RANGE	CHARADRIUS MONTANUS	PLOVER, MOUNTAIN	C	BIR	C
AMC	WHITE SANDS MISSILE RANGE	EMPIDONAX TRAILII EXTIMUS	FLYCATCHER, SOUTHWESTERN WILLOW	E	BIR	C
AMC	WHITE SANDS MISSILE RANGE	FALCO FEMORALIS SEPTENTRIONALIS	FALCON, NORTHERN APLOMADO	E	BIR	B
AMC	WHITE SANDS MISSILE RANGE	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	B
AMC	WHITE SANDS MISSILE RANGE	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
AMC	WHITE SANDS MISSILE RANGE	HEDEOMA TODSENII	TODSEN'S PENNYROYAL	E	PLA	B
AMC	WHITE SANDS MISSILE RANGE	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	C
AMC	YUMA PROVING GROUND	ECHINOCACTUS HORIZONTHALONIUS VAR. NICHOLII	NICHOL'S TURK'S HEAD CACTUS	E	PLA	O
AMC	YUMA PROVING GROUND	GOPHERUS AGASSIZII (SONORAN POPULATION)	SONORAN POPULATION OF THE DESERT TORTOISE	T(S/A)	REP	B
FORSOM	FT BRAGG	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	B
FORSOM	FT BRAGG	NEONYMPHA MITCHELLII FRANCISCI	BUTTERFLY, SAINT FRANCIS' SATYR	E	INS	O
FORSOM	FT BRAGG	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	B
FORSOM	FT BRAGG	RHUS MICHAUXII	MICHAUX'S SUMAC	E	PLA	B
FORSOM	FT BRAGG	SCHWALBEA AMERICANA	AMERICAN CHAFFSEED	E	PLA	B
FORSOM	FT BUCHANAN	BANARA VANDERBILTII	PALO DE RAMON	E	PLA	O
FORSOM	FT BUCHANAN	BUXUS VAHLII	VAHL BOXWOOD	E	PLA	O
FORSOM	FT BUCHANAN	DAPHNOPSIS HELLERANA	NONE	E	PLA	O
FORSOM	FT BUCHANAN	EPICRATES INORNATUS	PUERTO RICAN BOA	E	REP	O
FORSOM	FT BUCHANAN	OTTOSCHULZIA RHODOXYLON	PALO DE ROSA	E	PLA	O
FORSOM	FT CAMPBELL	APIOS PRICEANA	PRICE'S POTATO BEAN	T	PLA	C
FORSOM	FT CAMPBELL	DROMUS DROMAS	DROMEDARY PEARLY MUSSEL	E	CLA	C
FORSOM	FT CAMPBELL	EPIOBLASMA WALKERI	TAN RIFFLESHELL	E	CLA	C
FORSOM	FT CAMPBELL	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	B
FORSOM	FT CAMPBELL	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
FORSOM	FT CAMPBELL	LAMPSILIS ABRUPTA (=ORBICULATA)	PEARLYMUSSEL, PINK MUCKET	E	CLA	C
FORSOM	FT CAMPBELL	MYOTIS GRISESCENS	GRAY BAT	E	MAM	C
FORSOM	FT CAMPBELL	MYOTIS SODALIS	INDIANA BAT	E	MAM	C

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
FORSCOM	FT CAMPBELL	NERODIA ERYTHROGASTER NEGLECTA	SNAKE, NORTHERN COPPERBELLY WATER	PT	REP	C
FORSCOM	FT CAMPBELL	OBOVARIA RETUSA	RING PINK	E	CLA	C
FORSCOM	FT CAMPBELL	PLETHOBASUS COOPERIANUS	ORANGE FOOTED PEARLY MUSSEL	E	CLA	C
FORSCOM	FT CAMPBELL	PLEUROBEMA PLENUM	ROUGH PIGTOE	E	CLA	C
FORSCOM	FT CAMPBELL	QUADRULA FRAGOSA	MUSSEL, WINGED MAPLELEAF	E	CLA	C
FORSCOM	FT CARSON	CHARADRIUS MONTANUS	PLOVER, MOUNTAIN	C	BIR	B
FORSCOM	FT CARSON	ETHEOSTOMA CRAGINI	ARKANSAS DARTER	C	FIS	B
FORSCOM	FT CARSON	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	B
FORSCOM	FT CARSON	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
FORSCOM	FT CARSON	ONCORHYNCHUS CLARKI STOMIAS	GREENBACK CUTTHROAT TROUT	T	FIS	O
FORSCOM	FT CARSON	SPIRANTHES DILUVIALIS	UTE LADIES'-TRESSES	T	PLA	O
FORSCOM	FT CARSON	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	B
FORSCOM	FT DIX	NO SPECIES	NO SPECIES			
FORSCOM	FT DRUM	NO SPECIES	NO SPECIES			
FORSCOM	FT GILLETT	NO SPECIES	NO SPECIES			
FORSCOM	FT HAMILTON	NO SPECIES	NO SPECIES			
FORSCOM	FT HOOD	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	BIR	B
FORSCOM	FT HOOD	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	B
FORSCOM	FT HOOD	GRUS AMERICANA	WHOOPING CRANE	E	BIR	B
FORSCOM	FT HOOD	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
FORSCOM	FT HOOD	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	B
FORSCOM	FT IRWIN	ASTRAGALUS JAEGERIANUS	LANE MOUNTAIN MILK VETCH	C	PLA	B
FORSCOM	FT IRWIN	GOPHERUS AGASSIZII	DESERT TORTOISE	T	REP	B
FORSCOM		HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
FORSCOM	FT LEWIS	HOWELLIA AQUATILIS	HOWELLIA, WATER	T	PLA	B
FORSCOM	FT LEWIS	RANA PRETIOSA	FROG, SPOTTED	C	AMP	C
FORSCOM	FT LEWIS	SALVELINUS CONFLUENTUS	TROUT, BULL	C	FIS	C
FORSCOM	FT LEWIS	STRIX OCCIDENTALIS CAURINA	OWL, NORTHERN SPOTTED	T	BIR	H
FORSCOM	FT MC PHERSON	NO SPECIES	NO SPECIES			
FORSCOM	FT RILEY	CHARADRIUS MELODUS	PLOVER, PIPING	T	BIR	B
FORSCOM	FT RILEY	CHARADRIUS MELODUS	PLOVER, PIPING	T	BIR	B
FORSCOM	FT RILEY	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	B
FORSCOM	FT RILEY	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	B
FORSCOM	FT RILEY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
FORSCOM	FT RILEY	MACRHYBOPSIS (=HYBOPSIS) GELIDA	STURGEON CHUB	C	FIS	B
FORSCOM	FT RILEY	MACRHYBOPSIS (=HYBOPSIS) GELIDA	STURGEON CHUB	C	FIS	B
FORSCOM	FT RILEY	NOTROPIS TOPEKA (=TRISTIS)	TOPEKA SHINER	C	FIS	B
FORSCOM	FT RILEY	NOTROPIS TOPEKA (=TRISTIS)	TOPEKA SHINER	C	FIS	B
FORSCOM	FT RILEY	STERNA ANTILLARUM	TERN, LEAST	E	BIR	B
FORSCOM	FT RILEY	STERNA ANTILLARUM	TERN, LEAST	E	BIR	B
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	B
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	DRYMARCHON CORAIS COUPERI	SNAKE, EASTERN INDIGO	T	REP	B

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	B
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	O
FORSCOM	FT TOTTEN	NO SPECIES	NO SPECIES			
FORSCOM	FT. POLK	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	B
FORSCOM	HANCOCK ARMY COMPLEX	NO SPECIES	NO SPECIES			
FORSCOM	PINON CANYON MANEUVER SITE	CHARADRIUS MONTANUS	PLOVER, MOUNTAIN	C	BIR	B
FORSCOM	PINON CANYON MANEUVER SITE	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	B
FORSCOM	PINON CANYON MANEUVER SITE	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
FORSCOM	PINON CANYON MANEUVER SITE	VULPES VELOX	SWIFT FOX	C	MAM	B
FORSCOM	VANCOUVER BARRACKS	NO SPECIES	NO SPECIES			
FORSCOM	YAKIMA TRAINING CENTER	ERIGERON BASALTICUS	BASALT DAISY	C	PLA	B
FORSCOM	YAKIMA TRAINING CENTER	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	C
FORSCOM	YAKIMA TRAINING CENTER	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
MDW	FT A.P. HILL	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
MDW	FT A.P. HILL	HELONIAS BULLATA	SWAMP PINK	T	PLA	O
MDW	FT A.P. HILL	ISOTRIA MEDEOLOIDES	SMALL WHORLED POGONIA	T	PLA	O
MDW	FT BELVOIR	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
MDW	FT GEORGE G. MEADE	NO SPECIES	NO SPECIES			
MDW	FT MCNAIR	NO SPECIES	NO SPECIES			
MDW	FT MEYER	NO SPECIES	NO SPECIES			
MDW	FT RITCHIE	NO SPECIES	NO SPECIES			
MEDCOM	FITZSIMMONS ARMY MEDICAL CENTER	NO SPECIES	NO SPECIES			
MEDCOM	FT DETRICK	NO SPECIES	NO SPECIES			
MEDCOM	FT SAM HOUSTON	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	Bir	B
MEDCOM	FT SAM HOUSTON	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	Bir	B
MEDCOM	WALTER REED ARMY MEDICAL CENTER	NO SPECIES	NO SPECIES			
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	C
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	ALLIGATOR MISSISSIPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	B
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	AMARANTHUS PUMILUS	SEABEACH AMARANTH	T	PLA	C
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	CARETTA CARETTA	LOGGERHEAD SEA TURTLE	T	REP	C
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	CHARADRIUS MELODUS	PLOVER, PIPING	T	BIR	C

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	CHELONIA MYDAS	GREEN SEA TURTLE	T	REP	C
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	DERMOCHELYS CORIACEA	LEATHERBACK SEA TURTLE	E	REP	C
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	C
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	FELIS CONCOLOR COUGAR	EASTERN COUGAR	E	MAM	B
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	LEPIDOCHELYS KEMPII	TURTLE, KEMP'S (=ATLANTIC) RIDLEY SEA	E	REP	C
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	B
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	C
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	B
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	STERNA DOUGALLII DOUGALLII	TERN, ROSEATE	E	BIR	C
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	THALICTRUM COOLEYI	COOLEY'S MEADOWRUE	E	PLA	C
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	TRICHECHUS MANATUS	MANATEE, WEST INDIAN (=FLORIDA)	E	FIS	C
MTMC	MILITARY OCEAN TERMINAL, BAYONNE	NO SPECIES	NO SPECIES			
MTMC	OAKLAND ARMY BASE	NO SPECIES	NO SPECIES			
NGB	AL-ARNG	NO SPECIES	NO SPECIES			
NGB	AR-ARNG, CAMP JOSEPH T. ROBINSON	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	ARTEMUS TRAINING SITE	NO SPECIES	NO SPECIES			
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	CLEMATIS HIRSUTISSIMA VAR. ARIZONICA	ARIZONA LEATHER FLOWER	C	PLA	B
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	B
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	B
NGB	CA-ARNG, CAMP ROBERTS	BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL	T	CRU	B
NGB	CA-ARNG, CAMP ROBERTS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	CA-ARNG, CAMP ROBERTS	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	E	MAM	B
NGB	CA-ARNG, CAMP SAN LUIS OBISPO	CIRSIUM FONTINALE VAR. OBISPOENSE	THISTLE, CHORRO CREEK BOG	E	PLA	B
NGB	CA-ARNG, CAMP SAN LUIS OBISPO	RANA AURORA DRAYTONI	FROG, CALIFORNIA RED-LEGGED	PE	AMP	B

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
NGB	CA-ARNG, CAMP SAN LUIS OBISPO	VIREO BELLII PUSILLUS	VIREO, LEAST BELL'S	E	BIR	O
NGB	CAMP MALUHIA LTA	NO SPECIES	NO SPECIES			
NGB	DE-ARNG	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	C
NGB	EASTERN KENTUCKY TRAINING SITE	NO SPECIES	NO SPECIES			
NGB	FL-ARNG, CAMP BLANDING TS	ALLIGATOR MISSISSIPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	B
NGB	FL-ARNG, CAMP BLANDING TS	APHELOCOMA COERULESCENS (=A. C. COERULESCENS)	FLORIDA SCRUB JAY	T	BIR	B
NGB	FL-ARNG, CAMP BLANDING TS	DRYMARCHON CORIAS COUPERI	SNAKE, EASTERN INDIGO	T	REP	B
NGB	FL-ARNG, CAMP BLANDING TS	FELIS CONCOLOR CORYI	FLORIDA PANTHER	E	MAM	NR
NGB	FL-ARNG, CAMP BLANDING TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	FL-ARNG, CAMP BLANDING TS	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	B
NGB	FL-ARNG, CAMP BLANDING TS	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	O
NGB	FL-ARNG, CAMP BLANDING TS	RHODODENDRON CHAPMANII	CHAPMAN'S RHODODENDRON	E	PLA	O
NGB	FL-ARNG, CAMP BLANDING TS	URSUS AMERICANUS FLORIDANUS	FLORIDA BLACK BEAR	C	MAM	B
NGB	HI-ARNG, AAHOAKA AND WAILUA RIVER LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	O
NGB	HI-ARNG, AAHOAKA AND WAILUA RIVER LTA	GALLINULA CHLOROPUS SANDVICENSIS	HAWAIIAN GALLINULE	E	BIR	O
NGB	HI-ARNG, ANAHOLA LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	B
NGB	HI-ARNG, ANAHOLA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	B
NGB	HI-ARNG, ANAHOLA LTA	PUFFINUS AURICULARIS (=PUFFINUS) NEWELLI	SHEARWATER, NEWELL'S TOWNSEND'S (FORMERLY MANX) (=A`O)	T	BIR	B
NGB	HI-ARNG, FT RUGER	CYPERUS TRACHYSANTHOS	PU`UKA`A	PE	PLA	O
NGB	HI-ARNG, KANAIO LTA	MANDUCA BLACKBURNI	BLACKBURN'S SPHINX MOTH	C	INS	O
NGB	HI-ARNG, KANAIO LTA	PTERODROMA PHAEOPYGIA SANDWICHENSIS	PETREL, HAWAIIAN DARK-RUMPED	E	BIR	O
NGB	HI-ARNG, KANAIO LTA	SESBANIA TOMENTOSA	OHAI	E	PLA	O
NGB	HI-ARNG, KEAMUKU LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	O
NGB	HI-ARNG, KEAMUKU LTA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	O
NGB	HI-ARNG, KEAMUKU LTA	COLUBRINA OPPOSITIFOLIA	KAUILA	E	PLA	O
NGB	HI-ARNG, KEAMUKU LTA	HAPLOSTACHYS HAPLOSTACHYA	NONE	E	PLA	O
NGB	HI-ARNG, KEAMUKU LTA	ISODENDRION HOSAKAE	AUPAKA	E	PLA	O
NGB	HI-ARNG, KEAMUKU LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	O
NGB	HI-ARNG, KEAMUKU LTA	LIPOCHEETA VENOSA	NONE	E	PLA	O
NGB	HI-ARNG, KEAMUKU LTA	LOXOPS COCCINEUS COCCINEUS	HAWAII `AKEPA	E	BIR	O
NGB	HI-ARNG, KEAMUKU LTA	NESOCHEN (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR	O
NGB	HI-ARNG, KEAMUKU LTA	NOTHOCESTRUM BREVIFLORUM	AIEA	E	PLA	O
NGB	HI-ARNG, KEAMUKU LTA	OREOMYSTIS (=LOXOPS) MANA	CREEPER, HAWAII	E	BIR	O
NGB	HI-ARNG, KEAMUKU LTA	PORTULACA SCLEROCARPA	PO'E	E	PLA	O
NGB	HI-ARNG, KEAMUKU LTA	TETRAMOLOPIUM ARENARIUM ARENARIUM	NONE	E	PLA	O

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
NGB	HI-ARNG, KEAMUKU LTA	VIGNA O-WAHUENSIS	NONE	E	PLA	O
NGB	HI-ARNG, KEAMUKU LTA	ZANTHOXYLUM HAWAIIENSE	A'E	E	PLA	O
NGB	HI-ARNG, KEAUKAHA MILITARY RESERVATION	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	O
NGB	HI-ARNG, KEKAHA LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	C
NGB	HI-ARNG, KEKAHA LTA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	O
NGB	HI-ARNG, KEKAHA LTA	FULICA AMERICANA ALAI	HAWAIIAN COOT	E	BIR	C
NGB	HI-ARNG, KEKAHA LTA	GALLINULA CHLOROPUS SANDVICENSIS	HAWAIIAN GALLINULE	E	BIR	C
NGB	HI-ARNG, KEKAHA LTA	HIMANTOPUS MEXICANUS (=HIMANTOPUS) KNUDSENI	STILT, HAWAIIAN (=AE'O)	E	BIR	C
NGB	HI-ARNG, KEKAHA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	B
NGB	HI-ARNG, KEKAHA LTA	NESOCHEN (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR	B
NGB	HI-ARNG, PU'U PA LTA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	O
NGB	HI-ARNG, PU'U PA LTA	COLUBRINA OPPOSITIFOLIA	KAUILA	E	PLA	O
NGB	HI-ARNG, PU'U PA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	O
NGB	HI-ARNG, PU'U PA LTA	LIPOCHEETA VENOSA	NONE	E	PLA	O
NGB	HI-ARNG, PU'U PA LTA	LOXOPS COCCINEUS COCCINEUS	HAWAII 'AKEPA	E	BIR	O
NGB	HI-ARNG, PU'U PA LTA	NOTHOCESTRUM BREVIFLORUM	AIEA	E	PLA	O
NGB	HI-ARNG, PU'U PA LTA	OREOMYSTIS (=LOXOPS) MANA	CREEPER, HAWAII	E	BIR	O
NGB	HI-ARNG, PU'U PA LTA	PORTULACA SCLEROCARPA	PO'E	E	PLA	O
NGB	HI-ARNG, PU'U PA LTA	STENOZYNE ANGUSTIFOLIA	NONE	E	PLA	O
NGB	HI-ARNG, PU'U PA LTA	TETRAMOLOPIUM ARENARIUM ARENARIUM	NONE	E	PLA	O
NGB	IA-ARNG, CAMP DODGE	NO SPECIES	NO SPECIES			
NGB	ID-ARNG, ORCHARD TA	NO SPECIES	NO SPECIES			
NGB	IL-ARNG, MARSELLES TA	NO SPECIES	NO SPECIES			
NGB	IN-ARNG, ATTERBURY RESERVE FORCES TA	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	LA-ARNG, CAMP BEAUREGARD	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	C
NGB	MD-ARNG, LIL AARON STRAUS WILDERNESS AREA	PTILIMNIUM NODOSUM	HARPERELLA	E	PLA	B
NGB	ME-ARNG, AUBURN TS	NO SPECIES	NO SPECIES			
NGB	ME-ARNG, BANGOR INTERNATIONAL AIRPORT TS	NO SPECIES	NO SPECIES			
NGB	ME-ARNG, CASWELL TS	NO SPECIES	NO SPECIES			
NGB	ME-ARNG, GARDINER TS	NO SPECIES	NO SPECIES			
NGB	ME-ARNG, HOLLIS PLAINS TS	NO SPECIES	NO SPECIES			
NGB	ME-ARNG, PLYMOUTH TS	NO SPECIES	NO SPECIES			
NGB	ME-ARNG, RILEY-BOG BROOK TS	NO SPECIES	NO SPECIES			
NGB	MI-ARNG, CAMP GRAYLING	DENDROICA KIRTLANDII	WARBLER (WOOD), KIRTLAND'S	E	BIR	B
NGB	MI-ARNG, CAMP GRAYLING	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	MI-ARNG, CAMP GRAYLING	SOLIDAGO HOUGHTONII	HOUGHTON'S GOLDENROD	T	PLA	B

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
NGB	MN-ARNG, CAMP RIPLEY	CANIS LUPUS	WOLF, GRAY	T	MAM	B
NGB	MN-ARNG, CAMP RIPLEY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	O
NGB	MO-NGB, CAMP CLARK	ASCLEPIAS MEADII	MILKWEED, MEAD'S	T	PLA	C
NGB	MO-NGB, CAMP CROWDER	AMBLYOPSIS ROSAE	OZARK CAVEFISH	T	FIS	C
NGB	MO-NGB, CAMP CROWDER	ETHEOSTOMA CRAGINI	ARKANSAS DARTER	C	FIS	C
NGB	MO-NGB, CAMP CROWDER	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	MO-NGB, CAMP CROWDER	MYOTIS GRISESCENS	GRAY BAT	E	MAM	B
NGB	MO-NGB, CAMP CROWDER	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	C
NGB	MO-NGB, MACON TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	MO-NGB, MACON TS	MYOTIS SODALIS	INDIANA BAT	E	MAM	C
NGB	MO-NGB, SKELTON TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	MO-NGB, SKELTON TS	LAMPSILIS ABRUPTA (=ORBICULATA)	PEARLYMUSSEL, PINK MUCKET	E	CLA	C
NGB	MO-NGB, SKELTON TS	MACRHYBOPSIS (=HYBOPSIS) GELIDA	STURGEON CHUB	C	FIS	C
NGB	MO-NGB, SKELTON TS	MACRHYBOPSIS MEEKI	SICKLEFIN CHUB	C	FIS	C
NGB	MO-NGB, SKELTON TS	MYOTIS GRISESCENS	GRAY BAT	E	MAM	C
NGB	MO-NGB, SKELTON TS	NOTROPIS TOPEKA (=TRISTIS)	TOPEKA SHINER	C	FIS	C
NGB	MO-NGB, SKELTON TS	SCAPHIRHYNCHUS ALBUS	PALLID STURGEON	E	FIS	C
NGB	MO-NGB, SKELTON TS	STERNA ANTILLARUM	TERN, LEAST	E	BIR	B
NGB	MO-NGB, TRUMAN TS	ASCLEPIAS MEADII	MILKWEED, MEAD'S	T	PLA	C
NGB	MO-NGB, TRUMAN TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	MO-NGB, TRUMAN TS	MYOTIS GRISESCENS	GRAY BAT	E	MAM	C
NGB	MO-NGB, WAPPAPELLO TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	C
NGB	MO-NGB, WAPPAPELLO TS	LAMPSILIS ABRUPTA (=ORBICULATA)	PEARLYMUSSEL, PINK MUCKET	E	CLA	C
NGB	MO-NGB, WAPPAPELLO TS	LINDERA MELISSIFOLIA	PODBERRY	E	PLA	C
NGB	MS-ARNG, CAMP MCCAIN	NO SPECIES	NO SPECIES			
NGB	MS-ARNG, CAMP SHELBY	GOPHERUS POLYPHEMUS	GOPHER TORTOISE	T	REP	B
NGB	MS-ARNG, CAMP SHELBY	ISOETES LOUISIANENSIS	LOUISIANA QUILLWORT	E	PLA	B
NGB	MS-ARNG, CAMP SHELBY	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	C
NGB	ND-ARNG, CAMP GRAFTON	NO SPECIES	NO SPECIES			
NGB	ND-ARNG, CAMP GRAFTON SOUTH	CHARADRIUS MELODUS	PLOVER, PIPING	T	BIR	B
NGB	NE-ARNG	NO SPECIES	NO SPECIES			
NGB	NE-ARNG, CAMP ASHLAND	NO SPECIES	NO SPECIES			
NGB	NE-ARNG, HASTINGS TS	NO SPECIES	NO SPECIES			
NGB	NE-ARNG, MEAD TS	NO SPECIES	NO SPECIES			
NGB	NH-ARNG, REGIONAL TRAINING INSTITUTE	ISOTRIA MEDEOLOIDES	SMALL WHORLED POGONIA	T	PLA	C

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NGB	NH-ARNG, STATE MILITARY RESERVATION	LYCAEIDES MELISSA SAMUELIS	BUTTERFLY, KARNER BLUE	E	INS	C
NGB	NJ-ARNG NEW JERSEY NATIONAL GUARD	NO SPECIES	NO SPECIES			
NGB	NJ-ARNG, SEA GIRT NG TRAINING CTR	NO SPECIES	NO SPECIES			
NGB	NM-ARNG, CAMEL TRACKS	NO SPECIES	NO SPECIES			
NGB	NV-ARNG, CLARK COUNTY TS	EMPIDONAX TRAILLII EXTIMUS	FLYCATCHER, SOUTHWESTERN WILLOW	E	BIR	B
NGB	NV-ARNG, CLARK COUNTY TS	GOPHERUS AGASSIZII	DESERT TORTOISE	T	REP	B
NGB	NV-ARNG, STEAD TS	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	B
NGB	NV-ARNG, STEAD TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	NY-ARNG, CAMP SMITH	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	C
NGB	NY-ARNG, CAMP SMITH	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	C
NGB	NY-ARNG, CAMP SMITH	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	C
NGB	OK-ARNG, CAMP GRUBER	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	B
NGB	OR-ARNG, CAMP ADAIR	NO SPECIES	NO SPECIES			
NGB	OR-ARNG, CAMP RILEA	SPEYERIA ZERENE HIPPOLYTA	OREGON SILVERSPOT BUTTERFLY	T	INS	O
NGB	OR-ARNG, CENTRAL OREGON TS	NO SPECIES	NO SPECIES			
NGB	PA-ARNG, FT INDIANTOWN GAP	NO SPECIES	NO SPECIES			
NGB	RI-ARNG, COMMAND READINESS CENTER	NO SPECIES	NO SPECIES			
NGB	SC-ARNG, LEESBURG TRAINING SITE	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	E	PLA	O
NGB	SC-ARNG, LEESBURG TRAINING SITE	LYSIMACHIA ASPERULA E FOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	O
NGB	SC-ARNG, LEESBURG TRAINING SITE	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	O
NGB	TN-ARNG, CATOOSA TS	NO SPECIES	NO SPECIES			
NGB	TN-ARNG, GRUBBS/KYLE TC	NO SPECIES	NO SPECIES			
NGB	TN-ARNG, JOHN SEVIER RANGE	NO SPECIES	NO SPECIES			
NGB	TN-ARNG, MILAN TS	NO SPECIES	NO SPECIES			
NGB	TN-ARNG, TULLAHOMA TS	HELIANTHUS EGGERTII	EGGERT'S SUNFLOWER	PT	PLA	B
NGB	TN-ARNG, TULLAHOMA TS	MYOTIS GRISESCENS	GRAY BAT	E	MAM	C
NGB	TX-ARNG (ADDICKS RESERVOIR)	HYMENOXYS TEXANA	TEXAS PRAIRIE DAWN-FLOWER (=TEXAS BITTERWEED)	E	PLA	B
NGB	TX-ARNG, CAMP BARKELEY	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	B
NGB	UKUMEHAME FIRING RANGE	NO SPECIES	NO SPECIES			
NGB	UT-ARNG, CEDAR CITY ARMORY	CYNOMYS PARVIDENS	UTAH PRAIRIE DOG	T	MAM	C
NGB	UT-ARNG, ST. GEORGE ARMORY	ARCTOMECON HUMILIS	DWARF BEARCLAW POPPY	E	PLA	B
NGB	VA-ARNG	NO SPECIES	NO SPECIES			
NGB	VI-ARNG	NO SPECIES	NO SPECIES			
NGB	VT-ARNG, ETHAN ALLEN AFB, T.S.	NO SPECIES	NO SPECIES			

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
NGB	VT-ARNG, ETHAN ALLEN FIRING RANGE	NO SPECIES	NO SPECIES			
NGB	WA-ARNG, CAMP MURRAY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
NGB	WESTERN KENTUCKY TRAINING SITE	MYOTIS GRISESCENS	GRAY BAT	E	MAM	B
NGB	WI-ARNG	NO SPECIES	NO SPECIES			
NGB	WY-ARNG, CAMP GUERNSEY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	C
TRADOC	CARLISLE BARRACKS	NO SPECIES	NO SPECIES			
TRADOC	FORT KNOX	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
TRADOC	FORT KNOX	MYOTIS GRISESCENS	GRAY BAT	E	MAM	O
TRADOC	FORT KNOX	MYOTIS SODALIS	INDIANA BAT	E	MAM	B
TRADOC	FT BENNING	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	B
TRADOC	FT BENNING	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
TRADOC	FT BENNING	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	B
TRADOC	FT BENNING	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	O
TRADOC	FT BENNING	TRILLIUM RELIQUUM	RELICT TRILLIUM	E	PLA	O
TRADOC	FT BLISS	CORYPHANTHA SNEEDII VAR. SNEEDII (=ESCOBARIA S., MAMMILLARIA S.)	SNEED PINCUSHION CACTUS	E	PLA	B
TRADOC	FT BLISS	ECHINOCEREUS FENDLERI (=HEMPELII OF AUTHORS, NOT FOBE) VAR. KUENZLERİ	KUENZLER HEDGEHOG CACTUS	E	PLA	C
TRADOC	FT BLISS	EMPidonax traillii extimus	FLYCATCHER, SOUTHWESTERN WILLOW	E	BIR	B
TRADOC	FT BLISS	FALCO FEMORALIS SEPTENTRIONALIS	FALCON, NORTHERN APLOMADO	E	BIR	C
TRADOC	FT BLISS	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	B
TRADOC	FT BLISS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
TRADOC	FT BLISS	HEDEOMA TODSENII	TODSEN'S PENNYROYAL	E	PLA	C
TRADOC	FT BLISS	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	B
TRADOC	FT CHAFFEE	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	B
TRADOC	FT EUSTIS	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	C
TRADOC	FT EUSTIS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
TRADOC	FT GORDON	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	O
TRADOC	FT GORDON	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	O
TRADOC	FT GORDON	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	O
TRADOC	FT HUACHUCA	AMBYSTOMA CALIFORNIENSE (=A. TIGRINUM C.)	AMBYSTOMA CALIFORNIENSE (=A. TIGRINUM C.)	C	AMP	B
TRADOC	FT HUACHUCA	EMPidonax traillii extimus	FLYCATCHER, SOUTHWESTERN WILLOW	E	BIR	C
TRADOC	FT HUACHUCA	ERIGERON LEMMONII	LEMMON FLEABANE	C	PLA	O
TRADOC	FT HUACHUCA	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	B
TRADOC	FT HUACHUCA	LEPTONYCTERIS CURASOAE (=SANBORNII) Yerbabuenae	BAT, LESSER (=SANBORN'S) LONG-NOSED	E	MAM	B
TRADOC	FT HUACHUCA	LILAEOPSIS SCHAFFNERIANA SSP. RECURVA	HUACHUCA WATER-UMBEL	PE	PLA	B
TRADOC	FT HUACHUCA	PYRGULOPSIS THOMPSONII	SPRINGSNAIL, HUACHUCA	C	SNA	B
TRADOC	FT HUACHUCA	RANA SUBAQUAVOCALIS	FROG, RAMSEY CANYON LEOPARD	C	AMP	B

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
TRADOC	FT HUACHUCA	RUMEX ORTHONEURUS	BLUMER'S DOCK	C	PLA	B
TRADOC	FT HUACHUCA	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	B
TRADOC	FT JACKSON	ALLIGATOR MISSISSIPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	O
TRADOC	FT JACKSON	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	E	PLA	O
TRADOC	FT JACKSON	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	O
TRADOC	FT JACKSON	LYSIMACHIA ASPERULA FOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	O
TRADOC	FT JACKSON	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	O
TRADOC	FT LEE	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
TRADOC	FT MCCLELLAN	CYPRINELLA CAERULEA	BLUE SHINER	T	FIS	B
TRADOC	FT MCCLELLAN	MARSHALLIA MOHRII	MOHR'S BARBARA BUTTONS	T	PLA	O
TRADOC	FT MCCLELLAN	MYOTIS GRISESCENS	GRAY BAT	E	MAM	B
TRADOC	FT MCCLELLAN	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	C
TRADOC	FT MCCLELLAN	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA	B
TRADOC	FT MONROE	NO SPECIES	NO SPECIES			
TRADOC	FT RUCKER	ALLIGATOR MISSISSIPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	B
TRADOC	FT RUCKER	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	C
TRADOC	FT RUCKER	MYOTIS GRISESCENS	GRAY BAT	E	MAM	C
TRADOC	FT SILL	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	B
TRADOC	POM ANNEX	ANNIELLA PULCHRA NIGRA	CALIFORNIA BLACK LEGLESS LIZARD	PE	REP	B
TRADOC	POM ANNEX	CHARADRIUS ALEXANDRINUS NIVOSUS	PLOVER, WESTERN SNOWY	T	BIR	B
TRADOC	POM ANNEX	CHORIZANTHE PUNGENS VAR. PUNGENS	MONTEREY SPINEFLOWER	T	PLA	B
TRADOC	POM ANNEX	CHORIZANTHE ROBUSTA	ROBUST SPINEFLOWER	E	PLA	B
TRADOC	POM ANNEX	EUPHILOTES ENOPTES SMITHI	SMITH'S BLUE BUTTERFLY	E	INS	B
TRADOC	POM ANNEX	GILIA TENUIFLORA SSP. ARENARIA	MONTEREY SAND GILIA	E	PLA	B
TRADOC	POM ANNEX	PIPERIA YADONII	YADON'S PIPERIA	PE	PLA	B
TRADOC	POM ANNEX	RANA AURORA DRAYTONI	FROG, CALIFORNIA RED-LEGGED	PE	AMP	C
TRADOC	PRESIDIO OF MONTEREY (POM)	PIPERIA YADONII	YADON'S PIPERIA	PE	PLA	B
USARC	124TH RSC	NO SPECIES	NO SPECIES			
USARC	63RD RSC	NO SPECIES	NO SPECIES			
USARC	65TH RSC	NO SPECIES	NO SPECIES			
USARC	77TH RSC	NO SPECIES	NO SPECIES			
USARC	88TH RSC	NO SPECIES	NO SPECIES			
USARC	90TH RSC	NO SPECIES	NO SPECIES			
USARC	94TH RSC	NO SPECIES	NO SPECIES			
USARC	96TH RSC	NO SPECIES	NO SPECIES			
USARC	DEVENS RFTA	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	B
USARC	DEVENS RFTA	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
USARC	FT HUNTER LIGGETT	AMBYSTOMA CALIFORNIENSE (=A. TIGRINUM C.)	AMBYSTOMA CALIFORNIENSE (=A. TIGRINUM C.)	C	AMP	B
USARC	FT HUNTER LIGGETT	BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL	T	CRU	O
USARC	FT HUNTER LIGGETT	BUFO MICROSCAPHUS CALIFORNICUS	TOAD, ARROYO SOUTHWESTERN	E	AMP	O

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USARC	FT HUNTER LIGGETT	CHLOROGALIUM PURPUREUM VAR. PURPUREUM	PURPLE AMOLE	C	PLA	O
USARC	FT HUNTER LIGGETT	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	B
USARC	FT HUNTER LIGGETT	GYMNOGYPHS CALIFORNIANUS	CALIFORNIA CONDOR	E	BIR	C
USARC	FT HUNTER LIGGETT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
USARC	FT HUNTER LIGGETT	RANA AURORA DRAYTONI	FROG , CALIFORNIA RED-LEGGED	PE	AMP	C
USARC	FT HUNTER LIGGETT	VIREO BELLII PUSILLUS	VIREO, LEAST BELL'S	E	BIR	B
USARC	FT HUNTER LIGGETT	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	E	MAM	B
USARC	FT MCCOY	CANIS LUPUS	WOLF, GRAY	E	MAM	C
USARC	FT MCCOY	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	B
USARC	FT MCCOY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
USARC	FT MCCOY	LYCAEIDES MELISSA SAMUELIS	BUTTERFLY, KARNER BLUE	E	INS	B
USARC	FT PICKETT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B
USARC	FT PICKETT	RHUS MICHAUXII	MICHAUX'S SUMAC	E	PLA	O
USARC	MARTINEZ RESERVE CENTER	CHAMAESYCE (=EUPHORBIA) DELTOIDEA SSP. DELTOIDEA	DELTOID SPURGE	E	PLA	B
USARC	PARKS RFTA	RANA AURORA DRAYTONI	FROG , CALIFORNIA RED-LEGGED	PE	AMP	B
USARC	PARKS RFTA	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	E	MAM	C
USARPAC	DILLINGHAM TA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	B
USARPAC	DILLINGHAM TA	CYPERUS TRACHYSANTHOS	PU`UKA`A	PE	PLA	O
USARPAC	DILLINGHAM TA	FULICA AMERICANA ALAI	HAWAIIAN COOT	E	BIR	B
USARPAC	DILLINGHAM TA	GALLINULA CHLOROPUS SANDVICENSIS	HAWAIIAN GALLINULE	E	BIR	B
USARPAC	DILLINGHAM TA	HIBISCUS BRACKENRIDGEI SSP MOKULEIANUS	MA`O HAU HELE	E	PLA	C
USARPAC	DILLINGHAM TA	HIMANTOPUS MEXICANUS (=HIMANTOPUS) KNUDSENI	STILT, HAWAIIAN (=AE`O)	E	BIR	B
USARPAC	DILLINGHAM TA	MONACHUS SCHAUINSLANDI	HAWAIIAN MONK SEAL	E	MAM	B
USARPAC	DILLINGHAM TA	NOTOTRICHUM HUMILE	KULU`I	E	PLA	O
USARPAC	DILLINGHAM TA	SCHIEDEA KEALIAE	MA`OLI`OLI	PE	PLA	O
USARPAC	FT GREELY	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	O
USARPAC	FT RICHARDSON	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	O
USARPAC	FT WAINWRIGHT	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	O
USARPAC	KAHUKU TA	ACHATINELLA CURTA	PUPU KUAHIWI	E	SNA	C
USARPAC	KAHUKU TA	ACHATINELLA DIMORPHA	PUPU KUAHIWI	E	SNA	C
USARPAC	KAHUKU TA	ACHATINELLA SOWERBYANA	PUPU KUAHIWI	E	SNA	C
USARPAC	KAHUKU TA	ACHATINELLA VALIDA	PUPU KUAHIWI	E	SNA	C
USARPAC	KAHUKU TA	ADENOPHORUS PERIENS	NONE	E	PLA	O
USARPAC	KAHUKU TA	CHAMAESYCE ROCKII	AKOKO	PE	PLA	C
USARPAC	KAHUKU TA	CHASIEMPIIS SANDWICHENSIS IBIDIS	OAHU `ELEPAIO	C	BIR	C
USARPAC	KAHUKU TA	CYANEA GRIMESIANA SSP. GRIMESIANA	OHA, HAHA	E	PLA	C
USARPAC	KAHUKU TA	CYANEA KOOLAUENSIS	OHA, HAHA	PE	PLA	B
USARPAC	KAHUKU TA	CYANEA LONGIFLORA	OHA, HAHA	PE	PLA	B
USARPAC	KAHUKU TA	EUGENIA KOOLAUENSIS	NIOI	E	PLA	O
USARPAC	KAHUKU TA	GARDENIA MANNII	NANU	PE	PLA	B

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USARPAC	KAHUKU TA	HESPEROMANNIA ARBORESCENS	NONE	E	PLA	B
USARPAC	KAHUKU TA	PHYLLOSTEGIA HIRSUTA	NONE	PE	PLA	C
USARPAC	KAHUKU TA	SOLANUM SANDWICENSE	'AIAKEAKUA, POPOLO	E	PLA	C
USARPAC	KAHUKU TA	TETRAPLASANDRA GYMNOCARPA	'OHE 'OHE	E	PLA	B
USARPAC	KAWAILOA TA	ACHATINELLA ROSEA	PUPU KUAHIWI	E	SNA	O
USARPAC	KAWAILOA TA	ACHATINELLA APEXFULVA	PUPU KUAHIWI	E	SNA	O
USARPAC	KAWAILOA TA	ACHATINELLA BULIMOIDES	PUPU KUAHIWI	E	SNA	O
USARPAC	KAWAILOA TA	ACHATINELLA BYRONII	PUPU KUAHIWI	E	SNA	B
USARPAC	KAWAILOA TA	ACHATINELLA DECIPIENS	PUPU KUAHIWI	E	SNA	B
USARPAC	KAWAILOA TA	ACHATINELLA LEUCORRAPHE	PUPU KUAHIWI	E	SNA	O
USARPAC	KAWAILOA TA	ACHATINELLA LILA	PUPU KUAHIWI	E	SNA	B
USARPAC	KAWAILOA TA	ACHATINELLA LIVIDA	PUPU KUAHIWI	E	SNA	B
USARPAC	KAWAILOA TA	ACHATINELLA PULCHERRIMA	PUPU KUAHIWI	E	SNA	O
USARPAC	KAWAILOA TA	ACHATINELLA SOWERBYANA	PUPU KUAHIWI	E	SNA	B
USARPAC	KAWAILOA TA	ACHATINELLA SWIFTII	PUPU KUAHIWI	E	SNA	O
USARPAC	KAWAILOA TA	ADENOPHORUS PERIENS	NONE	E	PLA	O
USARPAC	KAWAILOA TA	CHAMAESYCE ROCKII	AKOKO	PE	PLA	B
USARPAC	KAWAILOA TA	CHASIEMPSIS SANDWICHENSIS IBIDIS	OAHU 'ELEPAIO	C	BIR	B
USARPAC	KAWAILOA TA	CYANEA ACUMINATA	OHA, HAHA	PE	PLA	B
USARPAC	KAWAILOA TA	CYANEA GRIMESIANA SSP. GRIMESIANA	OHA, HAHA	E	PLA	B
USARPAC	KAWAILOA TA	CYANEA KOOLAUENSIS	OHA, HAHA	PE	PLA	B
USARPAC	KAWAILOA TA	CYANEA LONGIFLORA	OHA, HAHA	PE	PLA	B
USARPAC	KAWAILOA TA	CYRTANDRA DENTATA	HA'IWALE	PE	PLA	O
USARPAC	KAWAILOA TA	CYRTANDRA VIRIDIFLORA	HA'IWALE	PE	PLA	B
USARPAC	KAWAILOA TA	DELISSEA SUBCORDATA	'OHA	PE	PLA	C
USARPAC	KAWAILOA TA	EUGENIA KOOLAUENSIS	NIOI	E	PLA	C
USARPAC	KAWAILOA TA	GARDENIA MANNII	NANU	PE	PLA	B
USARPAC	KAWAILOA TA	HESPEROMANNIA ARBORESCENS	NONE	E	PLA	B
USARPAC	KAWAILOA TA	LABORDIA CYRTANDRAE	KAMAKAHALA	PE	PLA	B
USARPAC	KAWAILOA TA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	B
USARPAC	KAWAILOA TA	LOBELIA GAUDICHAUDII SSP. KOOLAUENSIS	OHA, HAHA	PE	PLA	B
USARPAC	KAWAILOA TA	LOBELIA OAHUENSIS	OHA, HAHA	E	PLA	B
USARPAC	KAWAILOA TA	LYCOPodium NUTANS	WAWAE'IOLE	E	PLA	O
USARPAC	KAWAILOA TA	MELICOPE LYDGATEI	ALANI	E	PLA	O
USARPAC	KAWAILOA TA	MYRSINE JUDDII	KOLEA	PE	PLA	B
USARPAC	KAWAILOA TA	PAROREOMYZA (=OREOMYSTIS, =LOXOPS) FLAMMEA	CREEPER, MOLOKAI (=KAKAWAHIE)	E	BIR	B
USARPAC	KAWAILOA TA	PHYLLOSTEGIA HIRSUTA	NONE	PE	PLA	O
USARPAC	KAWAILOA TA	PHYLOSTEGIA PARVIFLORA VAR PARVIFLORA	NONE	E	PLA	O
USARPAC	KAWAILOA TA	PLANTAGO PRINCEPS VAR. LONGIBRACTEATA	LAUKAHI KUAHIWI	E	PLA	B
USARPAC	KAWAILOA TA	PLATANTHERA HOLOCHILA	NONE	PE	PLA	C
USARPAC	KAWAILOA TA	PTERIS LIDGATEI	NONE	E	PLA	O
USARPAC	KAWAILOA TA	ROLLANDIA CRISPA [CYANEA CRISPA]	OHA, HAHA	E	PLA	B
USARPAC	KAWAILOA TA	SANICULA PURPUREA	NONE	PE	PLA	B
USARPAC	KAWAILOA TA	TETRAPLASANDRA GYMNOCARPA	'OHE 'OHE	E	PLA	B

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USARPAC	KAWAIILOA TA	VIOLA OAHUENSIS	NONE	PE	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	ACHATINELLA MUSTELINA	PUPU KUAHIWI	E	SNA	B
USARPAC	MAKUA MILITARY RESERVATION	ALECTRYON MACROCOCCUS VAR. MACROCOCCUS	ALA'ALAHUA, MAHOE	E	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	AL SINIDENDRON OBOVATUM	NONE	E	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	BONAMIA MENZIESII	NONE	E	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	CAESALPINIA (=MEZONEURON) KAVAIENSE	UHIUHI	E	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	CENCHRUS AGRIMONIOIDES	KAMANOMANO (=SANDBUR, AGRIMONY)	PE	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	CHASIEMPSIS SANDWICHENSIS IBIDIS	OAHU 'ELEPAIO	C	BIR	B
USARPAC	MAKUA MILITARY RESERVATION	CTENITIS SQUAMIGERA	PAUOA	E	PLA	C
USARPAC	MAKUA MILITARY RESERVATION	CYANEA SUPERBA SSP. SUPERBA	OHA	E	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	DELISSSEA SUBCORDATA	'OHA	PE	PLA	C
USARPAC	MAKUA MILITARY RESERVATION	DIELLIA FALCATA	NONE	E	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	DUBAUTIA HERBSTOBATAE	NA'ENA'E	E	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	EUPHORBIA HAELEELEANA	'AKOKO	PE	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	FLUEGGEA NEOWAWRAEA	MEHAMEHAME	E	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	HEDYOTIS PARVULA	NONE	E	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	LEPIDIUM ARBUSCULA	ANAUNAU	PE	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	LIPOCHEETA TENUIFOLIA	NEHE	E	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	LOBELIA NIIHUAENSIS	OHA, HAHA	E	PLA	C
USARPAC	MAKUA MILITARY RESERVATION	NERAUDIA ANGULATA VAR. DENTATA	MA'ALOA	E	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	NERAUDIA ANGULATA VAR. ANGULATA	MA'ALOA	E	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	NOTOTRICHIUM HUMILE	KULU'I	E	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	PAROREOMYZA (=OREOMYSTIS, =LOXOPS) FLAMMEA	CREEPER, MOLOKAI (=KAKAWAHIE)	E	BIR	B
USARPAC	MAKUA MILITARY RESERVATION	PLANTAGO PRINCEPS VAR. PRINCEPS	LAUKAHI KUAHIWI	E	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	PRITCHARDIA KAALAE	LOULU	PE	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	SANICULA MARIVERSA	NONE	E	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	SCHIEDEA HOOKERI	NONE	PE	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	SCHIEDEA NUTTALLII	NONE	PE	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	SILENE LANCEOLATA	LANCELEAF CATCHFLY	E	PLA	O
USARPAC	MAKUA MILITARY RESERVATION	SPERMOLEPIS HAWAIIENSIS	HAWAIIAN PARSLEY	E	PLA	B

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USARPAC	MAKUA MILITARY RESERVATION	TETRAMOLOPIUM FILIFORME VAR POLYPHYLLUM	NONE	E	PLA	B
USARPAC	MAKUA MILITARY RESERVATION	TETRAMOLOPIUM LEPIDOTUM SSP LEPIDOTUM	NONE	E	PLA	C
USARPAC	MAKUA MILITARY RESERVATION	VIOLA CHAMISSONIANA SSP CHAMISSONIANA	PAMAKANI	E	PLA	O
USARPAC	POHAKULOA TA	ASPLENIUM FRAGILE VAR. INSULARE	FRAGILE FERN	E	PLA	O
USARPAC	POHAKULOA TA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	B
USARPAC	POHAKULOA TA	CORVUS HAWAIIENSIS	ALALA HAWAIIAN CROW	E	BIR	C
USARPAC	POHAKULOA TA	HAPLOSTACHYS HAPLOSTACHYA	NONE	E	PLA	B
USARPAC	POHAKULOA TA	HEDYOTIS CORIACEA	KIO'ELE	E	PLA	O
USARPAC	POHAKULOA TA	HEMIGNATHUS MUNROI (=WILSONI)	'AKIAPOLA'AU (HONEYCREEPER)	E	BIR	B
USARPAC	POHAKULOA TA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	B
USARPAC	POHAKULOA TA	LOXOIDES BAILLEUI	PALILA	E	BIR	B
USARPAC	POHAKULOA TA	LOXOPS COCCINEUS COCCINEUS	HAWAII 'AKEPA	E	BIR	C
USARPAC	POHAKULOA TA	NERAUDIA OVATA	MA'ALOA	PE	PLA	O
USARPAC	POHAKULOA TA	NESOCHEN (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR	B
USARPAC	POHAKULOA TA	OREOMYSTIS (=LOXOPS) MANA	CREEPER, HAWAII	E	BIR	C
USARPAC	POHAKULOA TA	PORTULACA SCLEROCARPA	PO'E	E	PLA	B
USARPAC	POHAKULOA TA	PSITTROSTRA PSITTACEA	O'U	E	BIR	C
USARPAC	POHAKULOA TA	PTERODROMA PHAEOPYGIA SANDWICHENSIS	PETREL, HAWAIIAN DARK-RUMPED	E	BIR	C
USARPAC	POHAKULOA TA	SILENE HAWAIIENSIS	HAWAIIAN CATCHFLY	T	PLA	O
USARPAC	POHAKULOA TA	SILENE LANCEOLATA	LANCELEAF CATCHFLY	E	PLA	O
USARPAC	POHAKULOA TA	SOLANUM INCOMPLETUM	SPINY POPOLO	E	PLA	O
USARPAC	POHAKULOA TA	SPERMOLEPIS HAWAIIENSIS	HAWAIIAN PARSLEY	E	PLA	O
USARPAC	POHAKULOA TA	STENOZYNE ANGUSTIFOLIA	NONE	E	PLA	O
USARPAC	POHAKULOA TA	TETRAMOLOPIUM ARENARIUM	MAUNA KEA PAMAKANI	E	PLA	O
USARPAC	POHAKULOA TA	ZANTHOXYLUM HAWAIIENSE	A'E	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ABUTILON SANDWICENSE	NONE	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHTINELLA APEXFULVA	PUPU KUAHIWI	E	SNA	O
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHTINELLA BYRONII	PUPU KUAHIWI	E	SNA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHTINELLA DECIPIENS	PUPU KUAHIWI	E	SNA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHTINELLA LEUCORRAPHE	PUPU KUAHIWI	E	SNA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHTINELLA MUSTELINA	PUPU KUAHIWI	E	SNA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHTINELLA SOWERBYANA	PUPU KUAHIWI	E	SNA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHTINELLA SWIFTII	PUPU KUAHIWI	E	SNA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ALECTRYON MACROCOCCUS VAR. MACROCOCCUS	ALA'ALAHUA, MAHOE	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ALSINIDENDRON TRINERVE	NONE	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CENCHRUS AGRIMONIOIDES	KAMANOMANO (=SANDBUR, AGRIMONY)	PE	PLA	O

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CHAMAEZYCE ROCKII	AKOKO	PE	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CHASIEMPIIS SANDWICHENSIS IBIDIS	OAHU 'ELEPAIO	C	BIR	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CTENITIS SQUAMIGERA	PAUOA	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA ACUMINATA	OHA , HAHA	PE	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA GRIMESIANA SSP. GRIMESIANA	OHA, HAHA	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA GRIMESIANA SSP. OBATAE	OHA, HAHA	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA KOOLAUENSIS	OHA, HAHA	PE	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA LONGIFLORA	OHA, HAHA	PE	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA SUPERBA SSP. SUPERBA	OHA	E	PLA	O
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYRTANDRA SUBUMBELLATA	HA'IWALE	PE	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	DELISSEA SUBCORDATA	'OHA	PE	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	DIELLIA FALCATA	NONE	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	DIPLAZIUM MOLOKAIENSE	NONE	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ERAGROSTIS FOSBERGII	FOSBERG'S LOVE GRASS	PE	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	FLUEGGEA NEOWAWRAEA	MEHAMEHAME	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	GARDENIA MANNII	NANU	PE	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	HESPEROMANNIA ARBORESCENS	NONE	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ISODENDRION LAURIFOLIUM	AUPAKA	PE	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LABORDIA CYRTANDRAE	KAMAKAHALA	PE	PLA	O
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LEPIDIUM ARBUSULA	ANAUNAU	PE	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LIPOCHAETA LOBATA VAR LEPTOPHYLLA	NEHE	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LOBELIA NIIHUAENSIS	OHA, HAHA	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LOBELIA OAHUENSIS	OHA, HAHA	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LYCOPODIUM NUTANS	WAWAE'IOLE	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	NERAUDIA ANGULATA VAR DENTATA	MA'ALOA	E	PLA	O
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	NERAUDIA ANGULATA VAR. ANGULATA	MA'ALOA	E	PLA	O
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	NOTOTRICHIUM HUMILE	KULU'I	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	PAROREOMYZA (=OREOMYSTIS, =LOXOPS) FLAMMEA	CREEPER, MOLOKAI (=KAKAWAHIE)	E	BIR	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	PHYLLOSTEGIA HIRSUTA	NONE	PE	PLA	B

MACOM	Installation	Scientific Name	Common Name	Federal status	Category	Onsite/ Contiguous/ Both
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	PHYLLOSTEGIA MOLLIS	NONE	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	PRITCHARDIA KAALAE	LOULU	PE	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	PTERIS LIDGATEI	NONE	E	PLA	O
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	SANICULA PURPUREA	NONE	PE	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	SCHIEDEA HOOKERI	NONE	PE	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	SCHIEDEA NUTTALLII	NONE	PE	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	SOLANUM SANDWICENSE	`AIAKEAKUA, POPOLO	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	STENOZYNE KANEHOANA	NONE	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	TETRAMOLOPIUM LEPIDOTUM SSP LEPIDOTUM	NONE	E	PLA	C
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	TETRAPLASANDRA GYMNOCARPA	`OHE`OHE	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	URERA KAALAE	OPUHE	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	VIOLA CHAMISSONIANA SSP CHAMISSONIANA	PAMAKANI	E	PLA	B
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	VIOLA OAHUENSIS	NONE	PE	PLA	B
USMA	US MILITARY ACADEMY, WEST POINT	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	B
USMA	US MILITARY ACADEMY, WEST POINT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	B

## Appendix E: Onsite T&E Species With Critical Habitat

MACOM	Installation	Scientific Name	Common Name	Federal Status	Category
FORSCOM	FT IRWIN	GOPHERUS AGASSIZII	DESERT TORTOISE	T	REP
NGB	OR-ARNG, CAMP RILEA	SPEYERIA ZERENE HIPPOLYTA	OREGON SILVERSPOUT BUTTERFLY	T	INS
NGB	AR-ARNG, CAMP NAVAJO MILITARY RESERVATION	STRIX OCCIDENTALIS LUCIDA	MEXICAN SPOTTED OWL	T	BIR
TRADOC	FT HUACHUCA	STRIX OCCIDENTALIS LUCIDA	MEXICAN SPOTTED OWL	T	BIR
USARPAC	POHAKULOA TA	LOXOIDES BAILLEUI	PALILA	E	BIR
FORSCOM	FT LEWIS	STRIX OCCIDENTALIS CAURINA	NORTHERN SPOTTED OWL	T	BIR

## Appendix F: Installations With at Least One Onsite T&E Species for Which the Installation is Designated “Very Important” in Recovery

MACOM	Installation
AMC	ABERDEEN PROVING GROUND
AMC	ANNISTON ARMY DEPOT
AMC	BLUEGRASS ARMY DEPOT
AMC	JEFFERSON PROVING GROUND
AMC	REDSTONE ARSENAL
AMC	WHITE SANDS MISSILE RANGE
FORSCOM	FT BRAGG
FORSCOM	FT HOOD
FORSCOM	FT IRWIN
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD
FORSCOM	FT. POLK
MEDCOM	FT SAM HOUSTON
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION
NGB	HI-ARNG, AAHOAKA AND WAILUA RIVER LTA
NGB	HI-ARNG, ANAHOLA LTA
NGB	HI-ARNG, KANAIO LTA
NGB	HI-ARNG, KEAMUKU LTA
NGB	HI-ARNG, KEAUKAHA MILITARY RESERVATION
NGB	HI-ARNG, KEKAHA LTA
NGB	HI-ARNG, PU'U PA LTA
NGB	MS-ARNG, CAMP SHELBY
NGB	OR-ARNG, CAMP RILEA
TRADOC	FT BENNING
TRADOC	FT JACKSON
TRADOC	FT MCCLELLAN
TRADOC	FT SILL
TRADOC	POM ANNEX
USARPAC	KAHUKU TA
USARPAC	KAWAILOA TA
USARPAC	MAKUA MILITARY RESERVATION
USARPAC	POHAKULOA TA
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION

## Appendix G: Installations Listed as “Very Important” to the Recovery of Particular Onsite T&E Species, With Species Names

MACOM	Installation	Scientific Name	Common Name	Fed status	Category
AMC	ABERDEEN PROVING GROUND	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR
AMC	ANNISTON ARMY DEPOT	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA
AMC	BLUEGRASS ARMY DEPOT	TRIFOLIUM STOLONIFERUM	RUNNING BUFFALO CLOVER	E	PLA
AMC	JEFFERSON PROVING GROUND	MYOTIS SODALIS	INDIANA BAT	E	MAM
AMC	REDSTONE ARSENAL	PALAEOMONAS ALABAMAE	ALABAMA CAVE SHRIMP	E	CRU
AMC	WHITE SANDS MISSILE RANGE	FALCO FEMORALIS SEPTENTRIONALIS	FALCON, NORTHERN APLOMADO	E	BIR
FORSCOM	FT BRAGG	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA
FORSCOM	FT BRAGG	NEONYMPHA MITCHELLII FRANCISCI	BUTTERFLY, SAINT FRANCIS' SATYR	E	INS
FORSCOM	FT BRAGG	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR
FORSCOM	FT BRAGG	RHUS MICHauxII	MICHaux'S SUMAC	E	PLA
FORSCOM	FT BRAGG	SCHWALBEA AMERICANA	AMERICAN CHAFFSEED	E	PLA
FORSCOM	FT HOOD	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	BIR
FORSCOM	FT HOOD	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR
FORSCOM	FT IRWIN	GOPHERUS AGASSIZII	DESERT TORTOISE	T	REP
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR
FORSCOM	FT. POLK	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR
MEDCOM	FT SAM HOUSTON	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	BIR
MEDCOM	FT SAM HOUSTON	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR
NGB	HI-ARNG, AAHOAKA AND WAILUA RIVER LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR
NGB	HI-ARNG, AAHOAKA AND WAILUA RIVER LTA	GALLINULA CHLOROPUS SANDVICENSIS	HAWAIIAN GALLINULE	E	BIR
NGB	HI-ARNG, ANAHOLA LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR
NGB	HI-ARNG, ANAHOLA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM
NGB	HI-ARNG, ANAHOLA LTA	PUFFINUS AURICULARIS (=PUFFINUS) NEWELLI	SHEARWATER, NEWELL'S TOWNSEND'S (FORMERLY MANX) (=`A`O)	T	BIR
NGB	HI-ARNG, KANAIO LTA	PTERODROMA PHAEOPYGIA SANDWICHENSIS	PETREL, HAWAIIAN DARK-RUMPED	E	BIR
NGB	HI-ARNG, KANAIO LTA	SESBANIA TOMENTOSA VAR. ARBOREA	OHAI	E	PLA
NGB	HI-ARNG, KEAMUKU LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR
NGB	HI-ARNG, KEAMUKU LTA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR

MACOM	Installation	Scientific Name	Common Name	Fed status	Category
NGB	HI-ARNG, KEAMUKU LTA	COLUBRINA OPPOSITIFOLIA	KAUILA	E	PLA
NGB	HI-ARNG, KEAMUKU LTA	HAPLOSTACHYS HAPLOSTACHYNA	NONE	E	PLA
NGB	HI-ARNG, KEAMUKU LTA	ISODENDRION HOSAKAE	AUPAKA	E	PLA
NGB	HI-ARNG, KEAMUKU LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM
NGB	HI-ARNG, KEAMUKU LTA	LIPOCHAETA VENOSA	NONE	E	PLA
NGB	HI-ARNG, KEAMUKU LTA	LOXOPS COCCINEUS COCCINEUS	HAWAII 'AKEPA	E	BIR
NGB	HI-ARNG, KEAMUKU LTA	NESOCHEN (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR
NGB	HI-ARNG, KEAMUKU LTA	NOTHOCESTRUM BREVIFLORUM	AIEA	E	PLA
NGB	HI-ARNG, KEAMUKU LTA	OREOMYSTIS (=LOXOPS) MANA	CREEPER, HAWAII	E	BIR
NGB	HI-ARNG, KEAMUKU LTA	PORTULACA SCLEROCARPA	PO'E	E	PLA
NGB	HI-ARNG, KEAMUKU LTA	TETRAMOLOPIUM ARENARIUM ARENARIUM	NONE	E	PLA
NGB	HI-ARNG, KEAMUKU LTA	VIGNA O-WAHUENSIS	NONE	E	PLA
NGB	HI-ARNG, KEAMUKU LTA	ZANTHOXYLUM HAWAIIENSE	A'E	E	PLA
NGB	HI-ARNG, KEAUKAHA MILITARY RESERVATION	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM
NGB	HI-ARNG, KEKAHA LTA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR
NGB	HI-ARNG, KEKAHA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM
NGB	HI-ARNG, KEKAHA LTA	NESOCHEN (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR
NGB	HI-ARNG, PU'U PA LTA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR
NGB	HI-ARNG, PU'U PA LTA	COLUBRINA OPPOSITIFOLIA	KAUILA	E	PLA
NGB	HI-ARNG, PU'U PA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM
NGB	HI-ARNG, PU'U PA LTA	LIPOCHAETA VENOSA	NONE	E	PLA
NGB	HI-ARNG, PU'U PA LTA	LOXOPS COCCINEUS COCCINEUS	HAWAII 'AKEPA	E	BIR
NGB	HI-ARNG, PU'U PA LTA	NOTHOCESTRUM BREVIFLORUM	AIEA	E	PLA
NGB	HI-ARNG, PU'U PA LTA	OREOMYSTIS (=LOXOPS) MANA	CREEPER, HAWAII	E	BIR
NGB	HI-ARNG, PU'U PA LTA	PORTULACA SCLEROCARPA	PO'E	E	PLA
NGB	HI-ARNG, PU'U PA LTA	STENOZYNE ANGUSTIFOLIA	NONE	E	PLA
NGB	HI-ARNG, PU'U PA LTA	TETRAMOLOPIUM ARENARIUM ARENARIUM	NONE	E	PLA
NGB	MS-ARNG, CAMP SHELBY	ISOETES LOUISIANENSIS	LOUISIANA QUILLWORT	E	PLA
NGB	OR-ARNG, CAMP RILEA	SPEYERIA ZERENE HIPPOLYTA	OREGON SILVERSPOT BUTTERFLY	T	INS
TRADOC	FT BENNING	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR
TRADOC	FT BENNING	TRILLIUM RELIQUUM	RELICT TRILLIUM	E	PLA
TRADOC	FT JACKSON	LYSIMACHIA ASPERULA E FOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA
TRADOC	FT MCCLELLAN	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA
TRADOC	FT SILL	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR
TRADOC	POM ANNEX	CHORIZANTHE PUNGENS VAR. PUNGENS	MONTEREY SPINEFLOWER	T	PLA
TRADOC	POM ANNEX	EUPHILOTES ENOPTES SMITHI	SMITH'S BLUE BUTTERFLY	E	INS
TRADOC	POM ANNEX	GILIA TENUIFLORA SSP. ARENARIA	MONTEREY SAND GILIA	E	PLA
USARPAC	KAHUKU TA	EUGENIA KOOLAUENSIS	NIKI	E	PLA
USARPAC	KAWAILOA TA	LYCOPodium NUTANS	WAWAE'IOLE	E	PLA
USARPAC	KAWAILOA TA	MELICOPHE LYDGATEI	ALANI	E	PLA
USARPAC	MAKUA MILITARY RESERVATION	ACHATINELLA MUSTELINA	PUPU KUAHIWI	E	SNA
USARPAC	MAKUA MILITARY RESERVATION	CYANEA SUPERBA SSP. SUPERBA	OHA	E	PLA
USARPAC	MAKUA MILITARY RESERVATION	DIELLIA FALCATA	NONE	E	PLA
USARPAC	MAKUA MILITARY RESERVATION	FLUEGGEA NEOWAWRAEA	MEHAMEHAME	E	PLA

MACOM	Installation	Scientific Name	Common Name	Fed status	Category
USARPAC	MAKUA MILITARY RESERVATION	HEDYOTIS PARVULA	NONE	E	PLA
USARPAC	MAKUA MILITARY RESERVATION	NERAUDIA ANGULATA VAR DENTATA	MA'ALOA	E	PLA
USARPAC	MAKUA MILITARY RESERVATION	NERAUDIA ANGULATA VAR. ANGULATA	MA'ALOA	E	PLA
USARPAC	MAKUA MILITARY RESERVATION	SANICULA MARIVERSA	NONE	E	PLA
USARPAC	MAKUA MILITARY RESERVATION	TETRAMOLOPIUM FILIFORME VAR POLYPHYLLUM	NONE	E	PLA
USARPAC	MAKUA MILITARY RESERVATION	VIOLA CHAMISSONIANA SSP CHAMISSONIANA	PAMAKANI	E	PLA
USARPAC	POHAKULOA TA	HAPLOSTACHYS HAPLOSTACHYA	NONE	E	PLA
USARPAC	POHAKULOA TA	HEDYOTIS CORIACEA	KIO'ELE	E	PLA
USARPAC	POHAKULOA TA	LOXOIDES BAILLEUI	PALILA	E	BIR
USARPAC	POHAKULOA TA	SILENE HAWAIIENSIS	HAWAIIAN CATCHFLY	T	PLA
USARPAC	POHAKULOA TA	SILENE LANCEOLATA	LANCELEAF CATCHFLY	E	PLA
USARPAC	POHAKULOA TA	SOLANUM INCOMPLETUM	SPINY POPOLO	E	PLA
USARPAC	POHAKULOA TA	STENOZYNE ANGUSTIFOLIA	NONE	E	PLA
USARPAC	POHAKULOA TA	TETRAMOLOPIUM ARENARIUM	MAUNA KEA PAMAKANI	E	PLA
USARPAC	POHAKULOA TA	ZANTHOXYLUM HAWAIIENSE	A'E	E	PLA
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ALSINIDENDRON TRINERVE	NONE	E	PLA
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	DIELLIA FALCATA	NONE	E	PLA
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LOBELIA OAHUENSIS	OHA, HAHA	E	PLA
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	NERAUDIA ANGULATA VAR DENTATA	MA'ALOA	E	PLA
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	NERAUDIA ANGULATA VAR. ANGULATA	MA'ALOA	E	PLA
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	URERA KAALAE	OPUHE	E	PLA
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	VIOLA CHAMISSONIANA SSP CHAMISSONIANA	PAMAKANI	E	PLA

## Appendix H: Management Issues for Onsite T&E Species With at Least One Biological Assessment\*

MACOM	Installation	Scientific Name	Common Name	Fed Stat	Cat.	Bio. Assmts	No affect	May affect	Non Jeop	Jeop	Implementation status for Biol. Opinions
AMC	ABERDEEN PROVING GROUND	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	3	3	0	6	0	I
AMC	HOLSTON AAP	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	1	1	0	0	0	NA
AMC	NEWPORT CHEMICAL DEPOT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	2	1	1	2	0	CB
AMC	MCALESTER AAP	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	1	1	0	1	0	C
AMC	VOLUNTEER AAP	SCUTELLARIA MONTANA	LARGE-FLOWERED SKULLCAP	E	PLA	1	1	0	0	0	NA
AMC	BLUEGRASS ARMY DEPOT	TRIFOLIUM STOLONIFERUM	RUNNING BUFFALO CLOVER	E	PLA	1	1	0	0	0	NR
AMC	ANNISTON ARMY DEPOT	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA	1	1	0	0	0	C
AMC	TWIN CITIES AAP	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	1	NR	NR	NR	NR	C
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	1	1	0	0	0	NA
FORSCOM	FT HOOD	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	BIR	1	0	1	1	0	CB
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	DRYMARCHON CORAIS COUPERI	SNAKE, EASTERN INDIGO	T	REP	1	1	0	0	0	NA
FORSCOM	FT HOOD	FALCO PEREGRINUS	FALCON, PEREGRINE	E (S/A)	BIR	1	1	0	NR	0	NA
FORSCOM	FT IRWIN	GOPHERUS AGASSIZII	DESERT TORTOISE	T	REP	3	3	0	2	0	I
FORSCOM	FT HOOD	GRUS AMERICANA	WHOOPING CRANE	E	BIR	1	0	1	1	0	I
FORSCOM	FT HOOD	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	1	0	1	1	0	I
FORSCOM	FT LEWIS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	2	2	0	0	0	NA
FORSCOM	FT RILEY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	4	3	1	NR	NR	NA
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	1	1	0	0	0	NA
FORSCOM	YAKIMA TRAINING CENTER	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	2	1	1	2	0	I

\* For species with at least one Biological assessment, this appendix shows the number of no affect/may affect determinations, jeopardy/non-jeopardy opinions, and implementation status for biological opinions. Implementation statuses are as follows: I = implemented, C = in consultation, A = abandoned, CB = Combination of statuses (for species with several biological opinions), NA = Not applicable, NR = non-response.

MACOM	Installation	Scientific Name	Common Name	Fed Stat	Cat.	Bio. Assmts	No affect	May affect	Non Jeop	Jeop	Implementation status for Biol. Opinions
FORSCOM	FT LEWIS	HOWELLIA AQUATILIS	HOWELLIA, WATER	T	PLA	1	1	0	0	0	NA
FORSCOM	FT BRAGG	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	34	33	1	0	1	CB
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	1	1	0	0	0	NA
FORSCOM	FT BRAGG	NEONYMPHA MITCHELLII FRANCISCI	BUTTERFLY, SAINT FRANCIS' SATYR	E	INS	11	11	0	0	0	CB
FORSCOM	FT BRAGG	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	37	28	9	6	3	CB
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	4	2	2	NR	2	I
FORSCOM	FT. POLK	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	5	5	0	3	0	I
FORSCOM	FT BRAGG	RHUS MICHAUXII	MICHAUX'S SUMAC	E	PLA	34	33	1	0	1	CB
FORSCOM	FT BRAGG	SCHWALBEA AMERICANA	AMERICAN CHAFFSEED	E	PLA	29	29	0	0	0	CB
FORSCOM	FT HOOD	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	1	0	1	1	0	I
MDW	FT BELVOIR	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	1	1	0	0	0	NA
MEDCOM	FT SAM HOUSTON	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	BIR	1	NR	NR	1	NR	I
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	8	4	3	6	2	CB
NGB	HI-ARNG, AAHOAKA AND WAILUA RIVER LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	1	NR	NR	NR	NR	NR
NGB	HI-ARNG, ANAHOLA LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	1	NR	NR	NR	NR	NR
NGB	UT-ARNG, ST. GEORGE ARMORY	ARCTOMECON HUMILIS	DWARF BEARCLAW POPPY	E	PLA	2	2	0	0	0	NA
NGB	HI-ARNG, KEKAHA LTA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	1	NR	NR	NR	NR	NR
NGB	MI-ARNG, CAMP GRAYLING	DENDROICA KIRTLANDII	WARBLER (WOOD), KIRTLAND'S	E	BIR	2	1	1	2	0	I
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	FALCO PEREGRINUS	FALCON, PEREGRINE	E (S/A)	BIR	2	0	2	NR	NR	NR
NGB	NV-ARNG, STEAD TS	FALCO PEREGRINUS	FALCON, PEREGRINE	E (S/A)	BIR	1	NR	NR	NR	NR	I
NGB	HI-ARNG, AAHOAKA AND WAILUA RIVER LTA	GALLINULA CHLOROPUS SANDVICENSIS	HAWAIIAN GALLINULE	E	BIR	1	NR	NR	NR	NR	NR
NGB	NV-ARNG, CLARK COUNTY TS	GOPHERUS AGASSIZII	DESERT TORTOISE	T	REP	2	0	2	2	2	C
NGB	MS-ARNG, CAMP SHELBY	GOPHERUS POLYPHEMUS	GOPHER TORTOISE	T	REP	4	0	0	1	0	I
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	6	6	0	2	0	C
NGB	CA-ARNG, CAMP ROBERTS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	1	1	0	0	0	NA
NGB	MI-ARNG, CAMP GRAYLING	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	2	1	1	2	0	I

MACOM	Installation	Scientific Name	Common Name	Fed Stat	Cat.	Bio. Assmts	No affect	May affect	Non Jeop	Jeop	Implementation status for Biol. Opinions
NGB	MN-ARNG, CAMP RIPLEY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	1	1	0	0	0	I
NGB	NV-ARNG, STEAD TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	1	NR	NR	NR	NR	I
NGB	HI-ARNG, ANAHOLA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	1	NR	NR	NR	NR	NR
NGB	HI-ARNG, KEUKAHA MILITARY RESERVATION	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	1	NR	NR	NR	NR	NR
NGB	HI-ARNG, KEKAHA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	1	NR	NR	NR	NR	NR
NGB	HI-ARNG, KEKAHA LTA	NESOCHEM (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR	1	NR	NR	NR	NR	NR
NGB	OK-ARNG, CAMP GRUBER	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	1	0	1	1	0	I
NGB	HI-ARNG, KANAIO LTA	PTERODROMA PHAEOPYGIA SANDWICHENSIS	PETREL, HAWAIIAN DARK-RUMPED	E	BIR	1	NR	NR	NR	NR	NR
NGB	HI-ARNG, ANAHOLA LTA	PUFFINUS AURICULARIS (=PUFFINUS) NEWELLI	SHEARWATER, NEWELL'S TOWNSEND'S (FORMERLY MANX) (=`A`O)	T	BIR	1	NR	NR	NR	NR	NR
NGB	HI-ARNG, KANAIO LTA	SESBANIA TOMENTOSA VAR. ARBOREA	OHAI	E	PLA	2	1	0	1	0	I
NGB	MI-ARNG, CAMP GRAYLING	SOLIDAGO HOUGHTONII	HOUGHTON'S GOLDENROD	T	PLA	2	2	0	0	0	NA
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	1	0	1	NR	NR	CB
NGB	TX-ARNG, CAMP BARKEY	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	2	2	0	0	0	I
NGB	CA-ARNG, CAMP ROBERTS	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	E	MAM	7	NR	2+	7	0	NA
TRADOC	POM ANNEX	CHARADRIUS ALEXANDRINUS NIVOSUS	PLOVER, WESTERN SNOWY	T	BIR	1	NR	NR	1	NR	I
TRADOC	POM ANNEX	CHORIZANTHE PUNGENS VAR. PUNGENS	MONTEREY SPINEFLOWER	T	PLA	1	NR	NR	1	NR	I
TRADOC	POM ANNEX	CHORIZANTHE ROBUSTA	ROBUST SPINEFLOWER	E	PLA	1	NR	NR	1	NR	I
TRADOC	FT MCCLELLAN	CYPRINELLA CAERULEA	BLUE SHINER	T	FIS	1	1	0	0	0	NA
TRADOC	FT JACKSON	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	E	PLA	3	3	0	0	0	NA
TRADOC	POM ANNEX	EUPHILOTES ENOPTES SMITHI	SMITH'S BLUE BUTTERFLY	E	INS	1	NR	NR	1	NR	I
TRADOC	POM ANNEX	GILIA TENUIFLORA SSP. ARENARIA	MONTEREY SAND GILIA	E	PLA	1	NR	NR	1	NR	I
TRADOC	FT BENNING	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	1	1	0	0	0	NA
TRADOC	FT HUACHUCA	LEPTONYCTERIS CURASOAE (=SANBORNII) YERBABUENAE	BAT, LESSER (=SANBORN'S) LONG-NOSED	E	MAM	1	1	0	0	0	NA
TRADOC	FT JACKSON	LYSIMACHIA ASPERULA E FOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	3	3	0	0	0	NA

MACOM	Installation	Scientific Name	Common Name	Fed Stat	Cat.	Bio. Assmts	No affect	May affect	Non Jeop	Jeop	Implementation status for Biol. Opinions
TRADOC	FT MCCLELLAN	MARSHALLIA MOHRII	MOHR'S BARBARA BUTTONS	T	PLA	1	1	0	0	0	NA
TRADOC	FT BENNING	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	1	1	0	0	0	NA
TRADOC	FT MCCLELLAN	MYOTIS GRISESCENS	GRAY BAT	E	MAM	1	1	0	0	0	NA
TRADOC	FT CHAFFEE	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	1	0	1	1	0	I
TRADOC	FT BENNING	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	1	0	1	0	1	NR
TRADOC	FT JACKSON	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	2	2	0	0	0	NA
TRADOC	FT BENNING	TRILLIUM RELIQUUM	RELICT TRILLIUM	E	PLA	1	1	0	0	0	NA
TRADOC	FT SILL	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	1	0	1	0	0	C
TRADOC	FT MCCLELLAN	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA	2	2	0	0	0	NA
USARC	FT HUNTER LIGGETT	BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL	T	CRU	2	0	2	2	0	C
USARC	FT HUNTER LIGGETT	BUFO MICROSCAPHUS CALIFORNICUS	TOAD, ARROYO SOUTHWESTERN	E	AMP	1	0	1	1	0	C
USARC	FT HUNTER LIGGETT	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	1	1	0	0	0	C
USARC	FT HUNTER LIGGETT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	2	0	2	2	0	C
USARC	FT MCCOY	LYCAEIDES MELISSA SAMUELIS	BUTTERFLY, KARNER BLUE	E	INS	8	1	2	1	0	I
USARC	FT HUNTER LIGGETT	VIREO BELLII PUSillus	VIREO, LEAST BELL'S	E	BIR	1	1	0	0	0	C
USARC	FT HUNTER LIGGETT	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	E	MAM	5	0	5	4	1	C
USARPAC	MAKUA MILITARY RESERVATION	ACHATINELLA MUSTELINA	PUPU KUAHIWI	E	SNA	1	0	1	0	1	CB
USARPAC	POHAKULOA TA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	1	1	0	1	0	I
USARPAC	POHAKULOA TA	HAPLOSTACHYS HAPLOSTACHYA	NONE	E	PLA	3	1	2	1	2	CB
USARPAC	POHAKULOA TA	HEMIGNATHUS MUNROI (=WILSONI)	AKIAPOLA'AU (HONEY-CREEPER)	E	BIR	1	1	0	1	0	I
USARPAC	POHAKULOA TA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	1	1	0	1	0	I
USARPAC	POHAKULOA TA	LOXOIDES BAILLEUI	PALILA	E	BIR	3	2	1	2	1	CB
USARPAC	POHAKULOA TA	NESOCHEN (=BRANTA) SANDVicensis	GOOSE, HAWAIIAN (=NENE)	E	BIR	1	0	1	0	1	I
USARPAC	POHAKULOA TA	STENOZYNE ANGUSTIFOLIA	NONE	E	PLA	3	1	2	1	2	CB
USMA	US MILITARY ACADEMY, WEST POINT	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	1	1	0	0	0	NA
USMA	US MILITARY ACADEMY, WEST POINT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	1	1	0	0	0	NA

# Appendix I: Status of ESMPs for Onsite TEP Species

## Completed ESMPs

MACOM	Installation	Scientific Name	Common Name	Fed Stat	Cat	ESMP
AMC	ABERDEEN PROVING GROUND	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	yes
AMC	SAVANNA ARMY DEPOT ACTIVITY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	yes
AMC	ARMY RESEARCH LABS (ADELPHI)	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	yes
AMC	VOLUNTEER AAP	SCUTELLARIA MONTANA	LARGE-FLOWERED SKULLCAP	E	PLA	yes
AMC	ANNISTON ARMY DEPOT	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA	yes
FORSCOM	FT LEWIS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	yes
MDW	FT A.P. HILL	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	yes
NGB	FL-ARNG, CAMP BLANDING TS	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	yes
NGB	FL-ARNG, CAMP BLANDING TS	APHELOCOMA COERULESCENS (=A. C. COERULESCENS)	FLORIDA SCRUB JAY	T	BIR	yes
NGB	UT-ARNG, ST. GEORGE ARMORY	ARCTOMECON HUMILIS	DWARF BEARCLAW POPPY	E	PLA	yes
NGB	MI-ARNG, CAMP GRAYLING	DENDROICA KIRTLANDII	WARBLER (WOOD), KIRTLAND'S	E	BIR	yes
NGB	FL-ARNG, CAMP BLANDING TS	DRYMARCHON CORAIS COUPERI	SNAKE, EASTERN INDIGO	T	REP	yes
NGB	NV-ARNG, STEAD TS	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	yes
NGB	FL-ARNG, CAMP BLANDING TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	yes
NGB	MI-ARNG, CAMP GRAYLING	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	yes
NGB	WA-ARNG, CAMP MURRAY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	yes
NGB	MN-ARNG, CAMP RIPLEY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	yes
NGB	FL-ARNG, CAMP BLANDING TS	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	yes
NGB	OK-ARNG, CAMP GRUBER	NIČCOPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	yes
NGB	FL-ARNG, CAMP BLANDING TS	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	yes
NGB	FL-ARNG, CAMP BLANDING TS	RHODODENDRON CHAPMANII	CHAPMAN'S RHODODENDRON	E	PLA	yes
NGB	TX-ARNG, CAMP BARKELEY	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	yes
NGB	NV-ARNG, STEAD TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	yes
TRADOC	POM ANNEX	ANNIELLA PULCHRA NIGRA	CALIFORNIA BLACK LEGLESS LIZARD	PE	REP	yes
TRADOC	POM ANNEX	CHARADRIUS ALEXANDRINUS NIVOSUS	PLOVER, WESTERN SNOWY	T	BIR	yes
TRADOC	POM ANNEX	CHORIZANTHE PUNGENS VAR. PUNGENS	MONTEREY SPINEFLOWER	T	PLA	yes
TRADOC	POM ANNEX	CHORIZANTHE ROBUSTA	ROBUST SPINEFLOWER	E	PLA	yes
TRADOC	FT MCCLELLAN	CYPRINELLA CAERULEA	BLUE SHINER	T	FIS	yes
TRADOC	POM ANNEX	EUPHILOTES ENOPTES SMITHI	SMITH'S BLUE BUTTERFLY	E	INS	yes
TRADOC	POM ANNEX	GILIA TENUIFLORA SSP. ARENARIA	MONTEREY SAND GILIA	E	PLA	yes

MACOM	Installation	Scientific Name	Common Name	Fed Stat	Cat	ESMP
TRADOC	FT MCCLELLAN	MARSHALLIA MOHRII	MOHR'S BARBARA BUTTONS	T	PLA	yes
TRADOC	FT MCCLELLAN	MYOTIS GRISESCENS	GRAY BAT	E	MAM	yes
TRADOC	POM ANNEX	PIPERIA YADONII	YADON'S PIPERIA	PE	PLA	yes
TRADOC	FT MCCLELLAN	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA	yes
USARC	MARTINEZ RESERVE CENTER	CHAMAESYCE (=EUPHORBIA) DELTOIDEA SSP. DELTOIDEA	DELTOID SPURGE	E	PLA	yes

**ESMPs Under Preparation**

MACOM	Installation	Scientific name	Common Name	Fed Stat	Cat	ESMP
AMC	REDSTONE ARSENAL	APIOS PRICEANA	PRICE'S POTATO BEAN	T	PLA	under prep
AMC	WHITE SANDS MISSILE RANGE	FALCO FEMORALIS SEPTENTRIONALIS	FALCON, NORTHERN APLOMADO	E	BIR	under prep
AMC	WHITE SANDS MISSILE RANGE	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	under prep
AMC	HOLSTON AAP	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
AMC	PICATINNY ARSENAL TACOM-ARDEC	MYOTIS SODALIS	INDIANA BAT	E	MAM	under prep
AMC	MCALESTER AAP	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	under prep
AMC	REDSTONE ARSENAL	PALAEMONIAS ALABAMAE	ALABAMA CAVE SHRIMP	E	CRU	under prep
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	under prep
FORSCOM	FT RILEY	CHARADRIUS MELODUS	PLOVER, PIPING	T	BIR	under prep
FORSCOM	FT HOOD	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	BIR	under prep
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	DRYMARCHON CORAIS COUPERI	SNAKE, EASTERN INDIGO	T	REP	under prep
FORSCOM	FT HOOD	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	under prep
FORSCOM	FT RILEY	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	under prep
FORSCOM	FT IRWIN	GOPHERUS AGASSIZII	DESERT TORTOISE	T	REP	under prep
FORSCOM	FT HOOD	GRUS AMERICANA	WHOOPING CRANE	E	BIR	under prep
FORSCOM	FT HOOD	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
FORSCOM	FT RILEY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
FORSCOM	FT LEWIS	HOWELLIA AQUATILIS	HOWELLIA, WATER	T	PLA	under prep
FORSCOM	FT BRAGG	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	under prep
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	under prep
FORSCOM	FT BRAGG	NEONYMPHA MITCHELLII FRANCISCI	BUTTERFLY, SAINT FRANCIS' SATYR	E	INS	under prep
FORSCOM	FT BRAGG	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	under prep
FORSCOM	FT. POLK	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	under prep
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	under prep
FORSCOM	FT BRAGG	RHUS MICHauxII	MICHaux'S SUMAC	E	PLA	under prep

MACOM	Installation	Scientific name	Common Name	Fed Stat	Cat	ESMP
FORSCOM	FT BRAGG	SCHWALBEA AMERICANA	AMERICAN CHAFFSEED	E	PLA	under prep
FORSCOM	FT RILEY	STERNA ANTILLARUM	TERN, LEAST	E	BIR	under prep
FORSCOM	FT HOOD	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	under prep
MDW	FT BELVOIR	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
MEDCOM	FT SAM HOUSTON	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	BIR	under prep
MEDCOM	FT SAM HOUSTON	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	under prep
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	under prep
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	under prep
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	under prep
NGB	MN-ARNG, CAMP RIPLEY	CANIS LUPUS	WOLF, GRAY	T	MAM	under prep
NGB	CA-ARNG, CAMP SAN LUIS OBISPO	CIRSIUM FONTINALE VAR. OBISPOENSE	THISTLE, CHORRO CREEK BOG	E	PLA	under prep
NGB	SC-ARNG, LEESBURG TRAINING SITE	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	E	PLA	under prep
NGB	MS-ARNG, CAMP SHELBY	GOPHERUS POLYPHEMUS	GOPHER TORTOISE	T	REP	under prep
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
NGB	MO-NGB, CAMP CROWDER	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
NGB	MO-NGB, MACON TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
NGB	MO-NGB, SKELTON TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
NGB	MO-NGB, TRUMAN TS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
NGB	TN-ARNG, TULLAHOMA TS	HELIANTHUS EGGERTII	EGGERT'S SUNFLOWER	PT	PLA	under prep
NGB	SC-ARNG, LEESBURG TRAINING SITE	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	under prep
NGB	MO-NGB, CAMP CROWDER	MYOTIS GRISESCENS	GRAY BAT	E	MAM	under prep
NGB	SC-ARNG, LEESBURG TRAINING SITE	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	under prep
NGB	MD-ARNG, LIL AARON STRAUS WILDERNESS AREA	PTILIMUM NODOSUM	HARPERELLA	E	PLA	under prep
NGB	CA-ARNG, CAMP SAN LUIS OBISPO	RANA AURORA DRAYTONI	FROG, CALIFORNIA RED-LEGGED	PE	AMP	under prep
NGB	MI-ARNG, CAMP GRAYLING	SOLIDAGO HOUGHTONII	HOUGHTON'S GOLDENROD	T	PLA	under prep
NGB	OR-ARNG, CAMP RILEA	SPEYERIA ZERENE HIPPOLYTA	OREGON SILVERSPOUT BUTTERFLY	T	INS	under prep
NGB	MO-NGB, SKELTON TS	STERNA ANTILLARUM	TERN, LEAST	E	BIR	under prep
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	under prep

MACOM	Installation	Scientific name	Common Name	Fed Stat	Cat	ESMP
NGB	CA-ARNG, CAMP SAN LUIS OBISPO	VIREO BELLII PUSILLUS	VIREO, LEAST BELL'S	E	BIR	under prep
TRADOC	FT BENNING	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	under prep
TRADOC	FT BLISS	CORYPHANTHA SNEEDII VAR. SNEEDII (=ESCOBARIA S., MAMMILLARIA S.)	SNEED PINCUSHION CACTUS	E	PLA	under prep
TRADOC	FT JACKSON	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	E	PLA	under prep
TRADOC	FT BLISS	EMPIDONAX TRAILLII EXTIMUS	FLYCATCHER, SOUTHWESTERN WILLOW	E	BIR	under prep
TRADOC	FT BLISS	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	under prep
TRADOC	FORT KNOX	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
TRADOC	FT BENNING	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
TRADOC	FT BLISS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
TRADOC	FT EUSTIS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
TRADOC	FT LEE	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
TRADOC	FT GORDON	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
TRADOC	FT JACKSON	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	under prep
TRADOC	FT BENNING	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	under prep
TRADOC	FT GORDON	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	under prep
TRADOC	FORT KNOX	MYOTIS GRISESCENS	GRAY BAT	E	MAM	under prep
TRADOC	FORT KNOX	MYOTIS SODALIS	INDIANA BAT	E	MAM	under prep
TRADOC	FT CHAFFEE	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	under prep
TRADOC	FT BENNING	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	under prep
TRADOC	FT GORDON	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	under prep
TRADOC	FT JACKSON	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	under prep
TRADOC	PRESIDIO OF MONTEREY (POM)	PIPERIA YADONII	YADON'S PIPERIA	PE	PLA	under prep
TRADOC	FT BLISS	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	under prep
TRADOC	FT BENNING	TRILLIUM RELIQUUM	RELICT TRILLIUM	E	PLA	under prep
TRADOC	FT SILL	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	under prep
USARC	FT HUNTER LIGGETT	BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL	T	CRU	under prep
USARC	FT HUNTER LIGGETT	BUFO MICROSCAPHUS CALIFORNICUS	TOAD, ARROYO SOUTHWESTERN	E	AMP	under prep
USARC	FT HUNTER LIGGETT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep
USARC	FT MCCOY	LYCAEIDES MELISSA SAMUELIS	BUTTERFLY, KARNER BLUE	E	INS	under prep
USARC	FT HUNTER LIGGETT	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	E	MAM	under prep

MACOM	Installation	Scientific name	Common Name	Fed Stat	Cat	ESMP
USARPAC	KAWAIOA TA	ACHATINELLA APEXFULVA	PUPU KUAHIWI	E	SNA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHATINELLA APEXFULVA	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAWAIOA TA	ACHATINELLA BULIMOIDES	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAWAIOA TA	ACHATINELLA BYRONII	PUPU KUAHIWI	E	SNA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHATINELLA BYRONII	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAWAIOA TA	ACHATINELLA DECIPIENS	PUPU KUAHIWI	E	SNA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHATINELLA DECIPIENS	PUPU KUAHIWI	E	SNA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHATINELLA LEUCORRAPHE	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAWAIOA TA	ACHATINELLA LEUCORRAPHE	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAWAIOA TA	ACHATINELLA LILA	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAWAIOA TA	ACHATINELLA LIVIDA	PUPU KUAHIWI	E	SNA	under prep
USARPAC	MAKUA MILITARY RESERVATION	ACHATINELLA MUSTELINA	PUPU KUAHIWI	E	SNA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHATINELLA MUSTELINA	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAWAIOA TA	ACHATINELLA PULCHERRIMA	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAWAIOA TA	ACHATINELLA ROSEA	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAWAIOA TA	ACHATINELLA SOWERBYANA	PUPU KUAHIWI	E	SNA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHATINELLA SOWERBYANA	PUPU KUAHIWI	E	SNA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ACHATINELLA SWIFTII	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAWAIOA TA	ACHATINELLA SWIFTII	PUPU KUAHIWI	E	SNA	under prep
USARPAC	KAHUKU TA	ADENOPHORUS PERIENS	NONE	E	PLA	under prep
USARPAC	KAWAIOA TA	ADENOPHORUS PERIENS	NONE	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	ALECTRYON MACROCOCCUS VAR. MACROCOCCUS	ALA'ALAHUA, MAHOE	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ALECTRYON MACROCOCCUS VAR. MACROCOCCUS	ALA'ALAHUA, MAHOE	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	AL SINIDENDRON OBOVATUM	NONE	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	AL SINIDENDRON TRINERVE	NONE	E	PLA	under prep
USARPAC	DILLINGHAM TA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	under prep
USARPAC	POHAKULOA TA	ASPLENIUM FRAGILE VAR. INSULARE	FRAGILE FERN	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	BONAMIA MENZIESII	NONE	E	PLA	under prep
USARPAC	POHAKULOA TA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	under prep
USARPAC	MAKUA MILITARY RESERVATION	CAESALPINIA (=MEZONEURON) KAVAIENSE	UHIUHI	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	CENCHRUS AGRIMONIOIDES	KAMANOMANO (=SANDBUR, AGRIMONY)	PE	PLA	under prep

MACOM	Installation	Scientific name	Common Name	Fed Stat	Cat	ESMP
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CENCHRUS AGRIMONIOIDES	KAMANOMANO (=SANDBUR, AGRIMONY)	PE	PLA	under prep
USARPAC	KAWAILOA TA	CHAMAESYCE ROCKII	AKOKO	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CHAMAESYCE ROCKII	AKOKO	PE	PLA	under prep
USARPAC	KAWAILOA TA	CYANEA ACUMINATA	OHA, HAHA	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA ACUMINATA	OHA, HAHA	PE	PLA	under prep
USARPAC	KAWAILOA TA	CYANEA GRIMESIANA SSP. GRIMESIANA	OHA, HAHA	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA GRIMESIANA SSP. GRIMESIANA	OHA, HAHA	E	PLA	under prep
USARPAC	KAHUKU TA	CYANEA KOOLAUENSIS	OHA, HAHA	PE	PLA	under prep
USARPAC	KAWAILOA TA	CYANEA KOOLAUENSIS	OHA, HAHA	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA KOOLAUENSIS	OHA, HAHA	PE	PLA	under prep
USARPAC	KAHUKU TA	CYANEA LONGIFLORA	OHA, HAHA	PE	PLA	under prep
USARPAC	KAWAILOA TA	CYANEA LONGIFLORA	OHA, HAHA	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA LONGIFLORA	OHA, HAHA	PE	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	CYANEA SUPERBA SSP. SUPERBA	OHA	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYANEA SUPERBA SSP. SUPERBA	OHA	E	PLA	under prep
USARPAC	DILLINGHAM TA	CYPERUS TRACHYSANTHOS	PU`UKA`A	PE	PLA	under prep
USARPAC	KAWAILOA TA	CYRTANDRA DENTATA	HA`IWALE	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	CYRTANDRA SUBUMBELLATA	HA`IWALE	PE	PLA	under prep
USARPAC	KAWAILOA TA	CYRTANDRA VIRIDIFLORA	HA`IWALE	PE	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	DIELLIA FALCATA	NONE	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	DIELLIA FALCATA	NONE	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	DUBAUTIA HERBSTOBATAE	NA`ENA`E	E	PLA	under prep
USARPAC	KAHUKU TA	EUGENIA KOOLAUENSIS	NIOI	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	EUPHORBIA HAELEELANA	AKOKO	PE	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	FLUEGGEA NEOWAWRAEA	MEHAMEHAME	E	PLA	under prep
USARPAC	DILLINGHAM TA	FULICA AMERICANA ALAI	COOT, HAWAIIAN (=`ALAE-KE`OKE`O)	E	BIR	under prep
USARPAC	DILLINGHAM TA	GALLINULA CHLOROPUS SANDVICENSIS	HAWAIIAN GALLINULE	E	BIR	under prep
USARPAC	KAHUKU TA	GARDENIA MANNII	NANU	PE	PLA	under prep
USARPAC	KAWAILOA TA	GARDENIA MANNII	NANU	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	GARDENIA MANNII	NANU	PE	PLA	under prep
USARPAC	POHAKULOA TA	HAPLOSTACHYS HAPLOSTACHYA	NONE	E	PLA	under prep

MACOM	Installation	Scientific name	Common Name	Fed Stat	Cat	ESMP
USARPAC	POHAKULOA TA	HEDYOTIS CORIACEA	KIO'ELE	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	HEDYOTIS PARVULA	NONE	E	PLA	under prep
USARPAC	POHAKULOA TA	HEMIGNATHUS MUNROI (=WILSONI)	'AKIAPOLA'AU (HONEYCREEPER)	E	BIR	under prep
USARPAC	KAHUKU TA	HESPEROMANNIA ARBORESCENS	NONE	E	PLA	under prep
USARPAC	KAWAILOA TA	HESPEROMANNIA ARBORESCENS	NONE	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	HESPEROMANNIA ARBORESCENS	NONE	E	PLA	under prep
USARPAC	DILLINGHAM TA	HIMANTOPUS MEXICANUS (=HIMANTOPUS) KNUDSENI	STILT, HAWAIIAN (=AE'O)	E	BIR	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	ISODENDRION LAURIFOLIUM	AUPAKA	PE	PLA	under prep
USARPAC	KAWAILOA TA	LABORDIA CYRTANDRAE	KAMAKAHALA	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LABORDIA CYRTANDRAE	KAMAKAHALA	PE	PLA	under prep
USARPAC	KAWAILOA TA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	under prep
USARPAC	POHAKULOA TA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	under prep
USARPAC	MAKUA MILITARY RESERVATION	LEPIDIUM ARBUSCULA	ANAUNAU	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LEPIDIUM ARBUSCULA	ANAUNAU	PE	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	LIPOCHAETA TENUIFOLIA	NEHE	E	PLA	under prep
USARPAC	KAWAILOA TA	LOBELIA GAUDICHAUDII SSP. KOOLAUENSIS	OHA, HAHA	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LOBELIA NIIHAUENSIS	OHA, HAHA	E	PLA	under prep
USARPAC	KAWAILOA TA	LOBELIA OAHUENSIS	OHA, HAHA	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	LOBELIA OAHUENSIS	OHA, HAHA	E	PLA	under prep
USARPAC	POHAKULOA TA	LOXOIDES BAILLEUI	PALILA	E	BIR	under prep
USARPAC	KAWAILOA TA	LYCOPodium NUTANS	WAWAE'IOLE	E	PLA	under prep
USARPAC	KAWAILOA TA	MELICOPE LYDGATEI	ALANI	E	PLA	under prep
USARPAC	DILLINGHAM TA	MONACHUS SCHAUINSLANDI	HAWAIIAN MONK SEAL	E	MAM	under prep
USARPAC	KAWAILOA TA	MYRSINE JUDDII	KOLEA	PE	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	NERAUDIA ANGULATA VAR. DENTATA	MA'ALOA	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	NERAUDIA ANGULATA VAR. DENTATA	MA'ALOA	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	NERAUDIA ANGULATA VAR. ANGULATA	MA'ALOA	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	NERAUDIA ANGULATA VAR. ANGULATA	MA'ALOA	E	PLA	under prep
USARPAC	POHAKULOA TA	NERAUDIA OVATA	MA'ALOA	PE	PLA	under prep
USARPAC	POHAKULOA TA	NESOCHEN (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR	under prep

MACOM	Installation	Scientific name	Common Name	Fed Stat	Cat	ESMP
USARPAC	MAKUA MILITARY RESERVATION	NOTOTRICHIUM HUMILE	KULU'I	E	PLA	under prep
USARPAC	DILLINGHAM TA	NOTOTRICHIUM HUMILE	KULU'I	E	PLA	under prep
USARPAC	KAWAILOA TA	PAROREOMYZA (=OREOMYSTIS, =LOXOPS) FLAMMEA	CREEPER, MOLOKAI (=KAKAWAHIE)	E	BIR	under prep
USARPAC	MAKUA MILITARY RESERVATION	PAROREOMYZA (=OREOMYSTIS, =LOXOPS) FLAMMEA	CREEPER, MOLOKAI (=KAKAWAHIE)	E	BIR	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	PAROREOMYZA (=OREOMYSTIS, =LOXOPS) FLAMMEA	CREEPER, MOLOKAI (=KAKAWAHIE)	E	BIR	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	PHYLLOSTEGIA HIRSUTA	NONE	PE	PLA	under prep
USARPAC	KAWAILOA TA	PHYLLOSTEGIA HIRSUTA	NONE	PE	PLA	under prep
USARPAC	KAWAILOA TA	PHYLOSTEGIA PARVIFLORA VAR PARVIFLORA	NONE	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	PLANTAGO PRINCEPS VAR PRINCEPS	LAUKAHI KUAHIWI	E	PLA	under prep
USARPAC	KAWAILOA TA	PLANTAGO PRINCEPS VAR. LONGIBRACTEATA	LAUKAHI KUAHIWI	E	PLA	under prep
USARPAC	POHAKULOA TA	PORTULACA SCLEROCARPA	PO'E	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	PRITCHARDIA KAALAE	LOULU	PE	PLA	under prep
USARPAC	KAWAILOA TA	PTERIS LIDGATEI	NONE	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	PTERIS LIDGATEI	NONE	E	PLA	under prep
USARPAC	KAWAILOA TA	ROLLANDIA CRISPA [CYANEA CRISPA]	OHA, HAHA	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	SANICULA MARIVERSA	NONE	E	PLA	under prep
USARPAC	KAWAILOA TA	SANICULA PURPUREA	NONE	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	SANICULA PURPUREA	NONE	PE	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	SCHIEDEA HOOKERI	NONE	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	SCHIEDEA HOOKERI	NONE	PE	PLA	under prep
USARPAC	DILLINGHAM TA	SCHIEDEA KEALIAE	MA'OLI'OLI	PE	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	SCHIEDEA NUTTALLII	NONE	PE	PLA	under prep
USARPAC	POHAKULOA TA	SILENE HAWAIIENSIS	HAWAIIAN CATCHFLY	T	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	SILENE LANCEOLATA	LANCELEAF CATCHFLY	E	PLA	under prep
USARPAC	POHAKULOA TA	SILENE LANCEOLATA	LANCELEAF CATCHFLY	E	PLA	under prep
USARPAC	POHAKULOA TA	SOLANUM INCOMPLETUM	SPINY POPOLO	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	SPERMOLEPIS HAWAIIENSIS	HAWAIIAN PARSLEY	E	PLA	under prep
USARPAC	POHAKULOA TA	SPERMOLEPIS HAWAIIENSIS	HAWAIIAN PARSLEY	E	PLA	under prep
USARPAC	POHAKULOA TA	STENOZYNE ANGUSTIFOLIA	NONE	E	PLA	under prep
USARPAC	POHAKULOA TA	TETRAMOLOPIUM ARENARIUM	MAUNA KEA PAMAKANI	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	TETRAMOLOPIUM FILIFORME VAR POLYPHYLLUM	NONE	E	PLA	under prep

MACOM	Installation	Scientific name	Common Name	Fed Stat	Cat	ESMP
USARPAC	KAHUKU TA	TETRAPLASANDRA GYMNOCARPA	'OHE 'OHE	E	PLA	under prep
USARPAC	KAWAILOA TA	TETRAPLASANDRA GYMNOCARPA	'OHE 'OHE	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	TETRAPLASANDRA GYMNOCARPA	'OHE 'OHE	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	URERA KAALAE	OPUHE	E	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	VIOLA CHAMISSONIANA SSP CHAMISSONIANA	PAMAKANI	E	PLA	under prep
USARPAC	MAKUA MILITARY RESERVATION	VIOLA CHAMISSONIANA SSP CHAMISSONIANA	PAMAKANI	E	PLA	under prep
USARPAC	KAWAILOA TA	VIOLA OAHUENSIS	NONE	PE	PLA	under prep
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	VIOLA OAHUENSIS	NONE	PE	PLA	under prep
USARPAC	POHAKULOA TA	ZANTHOXYLUM HAWAIIENSE	A'E	E	PLA	under prep
USMA	US MILITARY ACADEMY, WEST POINT	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	under prep
USMA	US MILITARY ACADEMY, WEST POINT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	under prep

**Without ESMPs**

MACOM	Installation	Scientific Name	Common Name	Fed Stat	Cat	ESMP
AMC	LONGHORN AAP	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	no
AMC	LOUISIANA AAP	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	no
AMC	PINE BLUFF ARSENAL	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	no
AMC	REDSTONE ARSENAL	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	no
AMC	JEFFERSON PROVING GROUND	DELISSEA SUBCORDATA	'OHA	PE	BIR	no
AMC	YUMA PROVING GROUND	ECHINOCACTUS HORIZONTHALONIUS VAR. NICHOLII	NICHOL'S TURK'S HEAD CACTUS	E	PLA	no
AMC	SIERRA ARMY DEPOT	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	no
AMC	PICATINNY ARSENAL TACOM-ARDEC	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	no
AMC	REDSTONE ARSENAL	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	no
AMC	TOOELE ARMY DEPOT	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	no
AMC	YUMA PROVING GROUND	GOPHERUS AGASSIZII (SONORAN POPULATION)	SONORAN POPULATION OF THE DESERT TORTOISE	T(S/A)	REP	no
AMC	DUGWAY PROVING GROUND	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
AMC	NEWPORT CHEMICAL DEPOT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
AMC	PICATINNY ARSENAL TACOM-ARDEC	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
AMC	PINE BLUFF ARSENAL	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
AMC	REDSTONE ARSENAL	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
AMC	ROCK ISLAND ARSENAL	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
AMC	SIERRA ARMY DEPOT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
AMC	SUNFLOWER AAP	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
AMC	TOOELE ARMY DEPOT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
AMC	WHITE SANDS MISSILE RANGE	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
AMC	WHITE SANDS MISSILE RANGE	HEDEOMA TODSENII	TODSEN'S PENNYROYAL	E	PLA	no
AMC	SAVANNA ARMY DEPOT ACTIVITY	LAMPSILIS HIGGINSI	PEARLYMUSSEL, HIGGINS' EYE	E	CLA	no
AMC	REDSTONE ARSENAL	MYOTIS GRISESCENS	GRAY BAT	E	MAM	no

MACOM	Installation	Scientific Name	Common Name	Fed Stat	Cat	ESMP
AMC	JEFFERSON PROVING GROUND	MYOTIS SODALIS	INDIANA BAT	E	MAM	no
AMC	RADFORD AAP	POLYGYRISCUS VIRGINIANUS	SNAIL, VIRGINIA FRINGED MOUNTAIN	E	SNA	no
AMC	BLUEGRASS ARMY DEPOT	TRIFOLIUM STOLONIFERUM	RUNNING BUFFALO CLOVER	E	PLA	no
AMC	TWIN CITIES AAP	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
FORSCOM	FT BUCHANAN	BANARA VANDERBILTII	PALO DE RAMON	E	PLA	no
FORSCOM	FT BUCHANAN	BUXUS VAHLII	VAHL BOXWOOD	E	PLA	no
FORSCOM	FT BUCHANAN	DAPHNOPTIS HELLERANA	NONE	E	PLA	no
FORSCOM	FT BUCHANAN	EPICRATES INORNATUS	PUERTO RICAN BOA	E	REP	no
FORSCOM	FT CAMPBELL	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	no
FORSCOM	FT CAMPBELL	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
FORSCOM	YAKIMA TRAINING CENTER	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
FORSCOM	FT BUCHANAN	OTTOSCHULZIA RHODOXYLON	PALO DE ROSA	E	PLA	no
MDW	FT A.P. HILL	HEILONIAS BULLATA	SWAMP PINK	T	PLA	no
MDW	FT A.P. HILL	ISOTRIA MEDEOLOIDES	SMALL WHORLED POGONIA	T	PLA	no
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	FELIS CONCOLOR COUGAR	EASTERN COUGAR	E	MAM	no
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
NGB	HI-ARNG, ANAHOLA LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	no
NGB	HI-ARNG, AHAOKA AND WAILUA RIVER LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	no
NGB	HI-ARNG, KEAMUKU LTA	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	no
NGB	CA-ARNG, CAMP ROBERTS	BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL	T	CRU	no
NGB	HI-ARNG, KEAMUKU LTA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	no
NGB	HI-ARNG, KEKAHA LTA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	no
NGB	HI-ARNG, PU'U PA LTA	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	no
NGB	ND-ARNG, CAMP GRAFTON SOUTH	CHARADRIUS MELODUS	PLOVER, PIPING	T	BIR	no
NGB	HI-ARNG, KEAMUKU LTA	COLUBRINA OPPOSITIFOLIA	KAUILA	E	PLA	no
NGB	HI-ARNG, PU'U PA LTA	COLUBRINA OPPOSITIFOLIA	KAUILA	E	PLA	no
NGB	HI-ARNG, FT RUGER	CYPERUS TRACHYSANTHOS	PU'UKA'A	PE	PLA	no
NGB	NV-ARNG, CLARK COUNTY TS	EMPIDONAX TRAILII EXTIMUS	FLYCATCHER, SOUTHWESTERN WILLOW	E	BIR	no
NGB	HI-ARNG, AHAOKA AND WAILUA RIVER LTA	GALLINULA CHLOROPUS SANDVICENSIS	HAWAIIAN GALLINULE	E	BIR	no
NGB	NV-ARNG, CLARK COUNTY TS	GOPHERUS AGASSIZII	DESERT TORTOISE	T	REP	no
NGB	AR-ARNG, CAMP JOSEPH T. ROBINSON	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
NGB	CA-ARNG, CAMP ROBERTS	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
NGB	IN-ARNG, ATTENBURY RESERVE FORCES TA	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
NGB	HI-ARNG, KEAMUKU LTA	HAPLOSTACHYS HAPLOSTACHYA	NONE	E	PLA	no
NGB	HI-ARNG, KEAMUKU LTA	ISODENDRION HOSAKAE	AUPAKA	E	PLA	no
NGB	MS-ARNG, CAMP SHELBY	ISOETES LOUISIANENSIS	LOUISIANA QUILLWORT	E	PLA	no
NGB	HI-ARNG, ANAHOLA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	no
NGB	HI-ARNG, KEKAHA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	no
NGB	HI-ARNG, KEAMUKU LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	no

MACOM	Installation	Scientific Name	Common Name	Fed Stat	Cat	ESMP
NGB	HI-ARNG, KEAUKAHA MILITARY RESERVATION	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	no
NGB	HI-ARNG, PU'U PA LTA	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	no
NGB	HI-ARNG, KEAMUKU LTA	LIPOCHAETA VENOSA	NONE	E	PLA	no
NGB	HI-ARNG, PU'U PA LTA	LIPOCHAETA VENOSA	NONE	E	PLA	no
NGB	HI-ARNG, KEAMUKU LTA	LOXOPS COCCINEUS COCCINEUS	HAWAII 'AKEPA	E	BIR	no
NGB	HI-ARNG, PU'U PA LTA	LOXOPS COCCINEUS COCCINEUS	HAWAII 'AKEPA	E	BIR	no
NGB	WESTERN KENTUCKY TRAINING SITE	MYOTIS GRISESCENS	GRAY BAT	E	MAM	no
NGB	HI-ARNG, KEKAHA LTA	NESOCHEN (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR	no
NGB	HI-ARNG, KEAMUKU LTA	NESOCHEN (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR	no
NGB	HI-ARNG, KEAMUKU LTA	NOTHOCESTRUM BREVIFLORUM	AIEA	E	PLA	no
NGB	HI-ARNG, PU'U PA LTA	NOTHOCESTRUM BREVIFLORUM	AIEA	E	PLA	no
NGB	HI-ARNG, KEAMUKU LTA	OREOMYSTIS (=LOXOPS) MANA	CREEPER, HAWAII	E	BIR	no
NGB	HI-ARNG, PU'U PA LTA	OREOMYSTIS (=LOXOPS) MANA	CREEPER, HAWAII	E	BIR	no
NGB	HI-ARNG, KEAMUKU LTA	PORTULACA SCLEROCARPA	PO'E	E	PLA	no
NGB	HI-ARNG, PU'U PA LTA	PORTULACA SCLEROCARPA	PO'E	E	PLA	no
NGB	HI-ARNG, KANAIO LTA	PTERODROMA PHAEOPYGIA SANDWICHENSIS	PETREL, HAWAIIAN DARK-RUMPED	E	BIR	no
NGB	HI-ARNG, ANAHOLA LTA	PUFFINUS AURICULARIS (=PUFFINUS) NEWELLI	SHEARWATER, NEWELL'S TOWNSEND'S (FORMERLY MANX) (=A'O)	T	BIR	no
NGB	HI-ARNG, KANAIO LTA	SESBANIA TOMENTOSA VAR. ARBOREA	OHAI	E	PLA	no
NGB	HI-ARNG, PU'U PA LTA	STENOZYNE ANGUSTIFOLIA	NONE	E	PLA	no
NGB	HI-ARNG, KEAMUKU LTA	TETRAMOLOPIUM ARENARIUM ARENARIUM	NONE	E	PLA	no
NGB	HI-ARNG, PU'U PA LTA	TETRAMOLOPIUM ARENARIUM ARENARIUM	NONE	E	PLA	no
NGB	HI-ARNG, KEAMUKU LTA	VIGNA O-WAHUENSIS	NONE	E	PLA	no
NGB	CA-ARNG, CAMP ROBERTS	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	E	MAM	no
NGB	HI-ARNG, KEAMUKU LTA	ZANTHOXYLUM HAWAIIENSE	A'E	E	PLA	no
TRADOC	FT RUCKER	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	no
TRADOC	FT JACKSON	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	no
TRADOC	FT HUACHUCA	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	no
TRADOC	FT JACKSON	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
TRADOC	FT HUACHUCA	LEPTONYCTERIS CURASAOE (=SANBORN) YERBABUENAE	BAT, LESSER (=SANBORN'S) LONG-NOSED	E	MAM	no
TRADOC	FT HUACHUCA	LILAEOPSIS SCHAFFNERIANA SSP. RECURVA	HUACHUCA WATER-UMBEL	PE	PLA	no
TRADOC	FT HUACHUCA	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	no
USARC	DEVENS RFTA	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	no
USARC	FT MCCOY	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	no
USARC	FT HUNTER LIGGETT	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	no
USARC	DEVENS RFTA	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
USARC	FT MCCOY	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
USARC	FT PICKETT	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	no
USARC	PARKS RFTA	RANA AURORA DRAYTONI	FROG, CALIFORNIA RED-LEGGED	PE	AMP	no
USARC	FT PICKETT	RHUS MICHAUXII	MICHAUX'S SUMAC	E	PLA	no
USARC	FT HUNTER LIGGETT	VIREO BELLII PUSILLUS	VIREO, LEAST BELL'S	E	BIR	no

**No Response Regarding ESMPs**

MACOM	Installation	Scientific Name	Common Name	Fed Stat	Cat	ESMP
FORSCOM	FT CARSON	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	NR
FORSCOM	PINON CANYON MANEUVER SITE	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	NR
FORSCOM	FT CARSON	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	NR
FORSCOM	PINON CANYON MANEUVER SITE	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	NR
FORSCOM	FT CARSON	ONCORHYNCHUS CLARKI STOMIAS	GREENBACK CUTTHROAT TROUT	T	FIS	NR
FORSCOM	FT CARSON	SPIRANTHES DILUVIALIS	UTE LADIES'-TRESSES	T	PLA	NR
FORSCOM	FT CARSON	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	NR
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	NR
NGB	TX-ARNG (ADDICKS RESERVOIR)	HYMENOXYS TEXANA	TEXAS PRAIRIE DAWN-FLOWER (=TEXAS BITTERWEED)	E	PLA	NR
USARPAC	FT GREELY	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	NR
USARPAC	FT RICHARDSON	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	NR
USARPAC	FT WAINWRIGHT	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	NR

## **Appendix J: Supplemental Guidance for Reporting Expenditures for the Conservation of Endangered and Threatened Species**

**BACKGROUND:** Section 18 of the Endangered Species Act of 1973 (16 U.S. 1531 et seq.) reads, in part, as follows:

“...reasonably identifiable Federal Expenditures made primarily for the conservation of endangered and threatened species pursuant to this Act.”

The Conference report for the 1988 amendments made some of the following points concerning the new Section 18 of the Act:

Provision should not become unduly burdensome or result in diversion of funds from the operation of the program.

The Secretary of Interior is to make a good faith effort to develop and obtain data but is not to undertake extensive or extraordinary measures.

Generalized dollar estimates will suffice.

Amendment seeks information primarily relating to development and implementation of recovery plans.

Amendment is not intended to apply to monitoring costs (usually meant for candidates or delisted species).

Amendment is not to require new species-specific time sheets for the Service or other reporting agency.

Listing, consultation, and law enforcement are to be included, but these will often not be “reasonably identifiable.” There will be cases of major single-species listings, consultations, or “stings” that should be reported.

Only salary costs that can be reasonably identified as applicable to particular species need be reported.

For other agencies and States, a good faith effort to collect information is expected; they are expected to cooperate.

Submission of data from the States or agencies is not to be a precondition to receiving any contracts or grants or establishing other arrangements with the Fish and Wildlife Service.

**DATA FORMAT:** Species should be identified by the same name as found in the most current list of species: common name for all animals and either common or scientific for plants. Amounts above \$2,000 need be only to nearest \$500 or \$1,000; smaller amounts may be to the nearest \$100. If the list of species exceeds several dozen, it would be

appreciated if the common names were alphabetized in inverted name order (e.g., WordPerfect, Lotus, ASCII).

States may use the list of species provided and simply write the total State amount beside the appropriate name.

**EXPENDITURES TO BE REPORTED:** In passing the amendment, Congress indicated that the requirement was aimed primarily at expenses associated with the development and implementation of recovery for listed species. Thus, the main focus of the report should be funding of projects that are to primarily support the conservation of endangered or threatened species.

Only reasonably identifiable expenditures for listed species will be totaled in this report. Extraordinary accounting to track monies expended on individual listed species are not expected.

All habitat acquisition costs are to be separately reported from all other identifiable expenditures. Such acquisitions must be primarily for the purpose of conserving specific Federally listed species. As with other projects, those portions of habitat acquisition costs that are specifically for a listed species may be prorated out of the total acquisition costs when the other habitat is being acquired for other purposes (e.g., 25 acres of a 250-acre purchase will be set aside).

Expenditures associated with consultations pursuant to Section 7 of the Act are covered only to the extent that they are readily identifiable to a particular species. Thus, a formal consultation dealing with a single species, or up to several species where the relative costs are easily divisible, would be subject to reporting.

Salary and benefits of an employee working full-time on a single species or whose time devoted to a particular species can be readily identified can be reported. Conversely, staff costs that are not assigned to work on particular species are not usually reportable. Any State or Federal project that has increased costs related directly to mitigation or other conservation efforts on behalf of Federally listed species can be reported as that added cost.

All State agencies (e.g., parks, heritage program, forests, highways) may report their expenditures, although only a single report form each State is expected to be submitted to the International Association of Fish and Wildlife Agencies.

Examples of reportable expenditures that are directed to individual species include status surveys, habitat management or acquisition, research, propagation (including surrogate species), recovery plan development or implementation, and mitigation. The project must be to primarily benefit the listed species and not other conservation goals.

Expenditures in a single project devoted to a number of listed species should either be prorated by the agency or not reported. General surveys or projects that cover a large number of species, some of which may not be listed, are not reportable.

Only species on the list of Endangered and Threatened Wildlife and Plants (50 CFR Part 17) at the end of the Fiscal Year are to be reported. Expenditures made prior to the actual

listing date of a species, but still within the same year, may be reported (e.g., costs of public meetings, notices, surveys, initial recovery efforts). Monies for unlisted, separate populations of listed vertebrates cannot be allowed into the report (e.g., southeastern brown pelicans, Atlantic and Gulf coast least terns, Alaska bald eagles or gray wolves). Expenditures for State-listed species are not reportable unless also Federally listed. Amounts for foreign species on the list are reportable (e.g., grants or contracts carried out in another country).

## Appendix K: Breakdown of Distinct Onsite TEPC Species by Total Expenditures for Each MACOM

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
AMC	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	\$100,200
AMC	FALCO FEMORALIS SEPTENTRIONALIS	FALCON, NORTHERN APLOMADO	E	BIR	\$65,000
AMC	ECHINOCACTUS HORIZONTHALONIUS VAR. NICHOLII	NICHOL'S TURK'S HEAD CACTUS	E	PLA	\$50,000
AMC	PALAEOMONIAS ALABAMAEE	ALABAMA CAVE SHRIMP	E	CRU	\$39,990
AMC	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	\$1,000
AMC	GOPHERUS AGASSIZII (SONORAN POPULATION)	SONORAN POPULATION OF THE DESERT TORTOISE	T(S/A)	REP	\$1,000
AMC	HEDEOMA TODSENII	TODSEN'S PENNYROYAL	E	PLA	\$1,000
AMC	LAMPSILIS HIGGINSI	PEARLYMUSSEL, HIGGINS' EYE	E	CLA	\$150
AMC	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	\$0
AMC	APIOS PRICEANA	PRICE'S POTATO BEAN	T	PLA	\$0
AMC	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	\$0
AMC	MYOTIS GRISESCENS	GRAY BAT	E	MAM	\$0
AMC	MYOTIS SODALIS	INDIANA BAT	E	MAM	\$0
AMC	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	\$0
AMC	POLYGYRISCUS VIRGINIANUS	SNAIL, VIRGINIA FRINGED MOUNTAIN	E	SNA	\$0
AMC	SCUTELLARIA MONTANA	LARGE-FLOWERED SKULLCAP	E	PLA	\$0
AMC	TRIFOLIUM STOLONIFERUM	RUNNING BUFFALO CLOVER	E	PLA	\$0
AMC	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA	\$0
AMC	CLEMmys MUHLENBERGII	TURTLE, BOG (NORTHERN POP.)	C	REP	NA
AMC	DELISSEA SUBCORDATA	OHA	PE	BIR	NA
					\$258,340

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
FORSCOM	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	\$2,474,853
FORSCOM	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	\$526,000
FORSCOM	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	BIR	\$464,000
FORSCOM	GOPHERUS AGASSIZII	DESERT TORTOISE	T	REP	\$295,211
FORSCOM	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	\$108,064
FORSCOM	LYSIMACHIA ASPERULA-EFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	\$84,756
FORSCOM	RHUS MICHAUXII	MICHAUX'S SUMAC	E	PLA	\$84,756
FORSCOM	SCHWALBEA AMERICANA	AMERICAN CHAFFSEED	E	PLA	\$84,756
FORSCOM	HOWELLIA AQUATILIS	HOWELLIA, WATER	T	PLA	\$50,000
FORSCOM	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	\$44,000
FORSCOM	NEONYMPHA MITCHELLII FRANCISCI	BUTTERFLY, SAINT FRANCIS' SATYR	E	INS	\$39,891
FORSCOM	ONCORHYNCHUS CLARKI STOMIAS	GREENBACK CUTTHROAT TROUT	T	FIS	\$7,000
FORSCOM	CHARADRIUS MELODUS	PLOVER, PIPING	T	BIR	\$3,000
FORSCOM	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	\$3,000
FORSCOM	STERNA ANTILLARUM	TERN, LEAST	E	BIR	\$3,000
FORSCOM	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	\$2,260
FORSCOM	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	\$2,000
FORSCOM	DRYMARCHON CORIAS COUPERI	SNAKE, EASTERN INDIGO	T	REP	\$995

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
FORSCOM	SPIRANTHES DILUVIALIS	UTE LADIES'-TRESSES	T	PLA	\$200
FORSCOM	BANARA VANDERBILTII	PALO DE RAMON	E	PLA	\$0
FORSCOM	BUXUS VAHLII	VAHL BOXWOOD	E	PLA	\$0
FORSCOM	DAPHNOPSIS HELLERANA	NONE	E	PLA	\$0
FORSCOM	EPICRATES INORNATUS	PUERTO RICAN BOA	E	REP	\$0
FORSCOM	GRUS AMERICANA	WHOOPING CRANE	E	BIR	\$0
FORSCOM	OTTO Schulzia RHODOXYLON	PALO DE ROSA	E	PLA	\$0
FORSCOM	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	NR
FORSCOM	ASTRAGALUS JAEGERIANUS	LANE MOUNTAIN MILK VETCH	C	PLA	NA
FORSCOM	CHARADRIUS MONTANUS	PLOVER, MOUNTAIN	C	BIR	NA
FORSCOM	ERIGERON BASALTICUS	BASALT DAISY	C	PLA	NA
FORSCOM	ETHEOSTOMA CRAGINI	ARKANSAS DARTER	C	FIS	NA
FORSCOM	MACRHYBOPSIS (=HYBOPSIS) GELIDA	STURGEON CHUB	C	FIS	NA
FORSCOM	NOTROPIS TOPEKA (=TRISTIS)	TOPEKA SHINER	C	FIS	NA
FORSCOM	VULPES VELOX	SWIFT FOX	C	MAM	NA
					\$4,277,743

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
MDW	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	\$14,000
MDW	HELIONIAS BULLATA	SWAMP PINK	T	PLA	NR
MDW	ISOTRIA MEDEOLOIDES	SMALL WHORLED POGONIA	T	PLA	NR
					\$14,000

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
MEDCOM	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER	E	BIR	\$35,000
MEDCOM	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	\$35,000
					\$70,000

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
MTMC	LYSIMACHIA ASPERULA FOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	\$4,000
MTMC	FELIS CONCOLOR COUGAR	EASTERN COUGAR	E	MAM	\$0
MTMC	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	\$0
MTMC	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	NR
MTMC	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	NR
					\$4,000

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
NGB	GOPHERUS POLYPHEMUS	GOPHER TORTOISE	T	REP	\$150,000
NGB	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	E	MAM	\$124,000
NGB	GOPHERUS AGASSIZII	DESERT TORTOISE	T	REP	\$58,000
NGB	BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL	T	CRU	\$50,000
NGB	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	\$40,000
NGB	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	\$35,000
NGB	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	\$30,000
NGB	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	\$25,200
NGB	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	\$22,000
NGB	CANIS LUPUS	WOLF, GRAY	T	MAM	\$20,000
NGB	ISOETES LOUISIANENSIS	LOUISIANA QUILLWORT	E	PLA	\$20,000
NGB	CIRSIMUM FONTINALE VAR. OBISPOENSE	THISTLE, CHORRO CREEK BOG	E	PLA	\$15,000
NGB	PTILIMNIUM NODOSUM	HARPERELLA	E	PLA	\$10,000
NGB	SPEYERIA ZERENE HIPPOLYTA	OREGON SILVERSPOOT BUTTERFLY	T	INS	\$10,000
NGB	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	\$2,000

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
NGB	SOLIDAGO HOUGHTONII	HOUGHTON'S GOLDENROD	T	PLA	\$600
NGB	VIREO BELLII PUSILLUS	VIREO, LEAST BELL'S	E	BIR	\$120
NGB	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	\$0
NGB	APHELOCOMA COERULESCENS (=A. C. COERULESCENS)	FLORIDA SCRUB JAY	T	BIR	\$0
NGB	CHARADRIUS MELODUS	PLOVER, PIPING	T	BIR	\$0
NGB	DENDROICA KIRTLANDII	WARBLER (WOOD), KIRTLAND'S	E	BIR	\$0
NGB	DRYMARCHON CORAIS COUPERI	SNAKE, EASTERN INDIGO	T	REP	\$0
NGB	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	E	PLA	\$0
NGB	EMPIDONAX TRAILLI EXTIMUS	FLYCATCHER, SOUTHWESTERN WILLOW	E	BIR	\$0
NGB	HYMENOXYS TEXANA	TEXAS PRAIRIE DAWN-FLOWER (=TEXAS BITTERWEED)	E	PLA	\$0
NGB	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	\$0
NGB	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	\$0
NGB	MYOTIS GRISESCENS	GRAY BAT	E	MAM	\$0
NGB	RHODODENDRON CHAPMANII	CHAPMAN'S RHODODENDRON	E	PLA	\$0
NGB	STERNA ANTILLARUM	TERN, LEAST	E	BIR	\$0
NGB	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	NR
NGB	ARCTOMECON HUMILIS	DWARF BEARCLAW POPPY	E	PLA	NR
NGB	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	NR
NGB	COLUBRINA OPPOSITIFOLIA	KAUILA	E	PLA	NR
NGB	GALLINULA CHLOROPUS SANDVICENSIS	HAWAIIAN GALLINULE	E	BIR	NR
NGB	HAPLOSTACHYS HAPLOSTACHYA	NONE	E	PLA	NR
NGB	ISODENDRION HOSAKAE	AUPAKA	E	PLA	NR
NGB	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	NR
NGB	LIPOCHAETA VENOSA	NONE	E	PLA	NR
NGB	LOXOPS COCCINEUS COCCINEUS	HAWAII 'AKEPA	E	BIR	NR
NGB	NESOCHEM (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR	NR
NGB	NOTHOCESTRUM BREVIFLORUM	AIEA	E	PLA	NR
NGB	OREOMYSTIS (=LOXOPS) MANA	CREEPER, HAWAII	E	BIR	NR
NGB	POTULACA SCLEROCARPA	PO'E	E	PLA	NR
NGB	PTERODROMA PHAEOPYGIA SANDWICHENSIS	PETREL, HAWAIIAN DARK-RUMPED	E	BIR	NR
NGB	PUFFINUS AURICULARIS (=PUFFINUS) NEWELLI	SHEARWATER, NEWELL'S TOWNSEND'S (FORMERLY MANX) (=`A'O)	T	BIR	NR
NGB	SESBANIA TOMENTOSA	OHAI	E	PLA	NR
NGB	STENOZYNE ANGUSTIFOLIA	NONE	E	PLA	NR
NGB	TETRAMOLOPIUM ARENARIUM ARENARIUM	NONE	E	PLA	NR
NGB	TETRAMOLOPIUM ARENARIUM ARENARIUM	NONE	E	PLA	NR
NGB	VIGNA O-WAHUENSIS	NONE	E	PLA	NR
NGB	ZANTHOXYLUM HAWAIIENSE	A'E	E	PLA	NR
NGB	CLEMATIS HIRSUTISSIMA VAR. ARIZONICA	ARIZONA LEATHER FLOWER	C	PLA	NA
NGB	CYPERUS TRACHYSANTHOS	PU'UKA'A	PE	PLA	NA
NGB	HELIANTHUS EGGERTII	EGGERT'S SUNFLOWER	PT	PLA	NA
NGB	MANDUCA BLACKBURNI	BLACKBURN'S SPHINX MOTH	C	INS	NA
NGB	RANA AURORA DRAYTONI	FROG, CALIFORNIA RED-LEGGED	PE	AMP	NA
NGB	URSUS AMERICANUS FLORIDANUS	FLORIDA BLACK BEAR	C	MAM	NA
					\$611,920

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
TRADOC	MYOTIS GRISESCENS	GRAY BAT	E	MAM	\$163,300
TRADOC	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	T	BIR	\$115,000
TRADOC	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	E	BIR	\$3,165,680

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
TRADOC	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	\$87,775
TRADOC	EUPHILOTES ENOPTES SMITHI	SMITH'S BLUE BUTTERFLY	E	INS	\$57,000
TRADOC	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	E	INS	\$50,000
TRADOC	LEPTONYCTERIS CURASOAE (=SANBORN) YERBABUENAE	BAT, LESSER (=SANBORN'S) LONG-NOSED	E	MAM	\$44,500
TRADOC	CORYPHANTHA SNEEDII VAR. SNEEDII (=ESCOBARIA S., MAMMILLARIA S.)	SNEED PINCUSHION CACTUS	E	PLA	\$40,000
TRADOC	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	E	BIR	\$40,000
TRADOC	MYOTIS SODALIS	INDIANA BAT	E	MAM	\$25,000
TRADOC	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	E	PLA	\$17,000
TRADOC	LYSIMACHIA ASPERULA FOLIA	ROUGH-LEAVED LOOSESTRIFE	E	PLA	\$17,000
TRADOC	CHORIZANTHE PUNGENS VAR. PUNGENS	MONTEREY SPINEFLOWER	T	PLA	\$16,001
TRADOC	GILIA TENUIFLORA SSP. ARENARIA	MONTEREY SAND GILIA	E	PLA	\$16,000
TRADOC	CHARADRUS ALEXANDRINUS NIVOSUS	PLOVER, WESTERN SNOWY	T	BIR	\$10,000
TRADOC	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	E	PLA	\$5,500
TRADOC	TRILLIUM RELIQUUM	RELICT TRILLIUM	E	PLA	\$4,750
TRADOC	MARSHALLIA MOHRII	MOHR'S BARBARA BUTTONS	T	PLA	\$4,000
TRADOC	ALLIGATOR MISSISSIPPIENSIS	ALLIGATOR, AMERICAN	T(S/A)	REP	\$800
TRADOC	CYPRINELLA CAERULEA	BLUE SHINER	T	FIS	\$700
TRADOC	MYCTERIA AMERICANA	STORK, WOOD	E	BIR	\$325
TRADOC	CHORIZANTHE ROBUSTA	ROBUST SPINEFLOWER	E	PLA	\$0
TRADOC	EMPIDONAX TRAILLII EXTIMUS	FLYCATCHER, SOUTHWESTERN WILLOW	E	BIR	\$0
TRADOC	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	\$0
TRADOC	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	NR
TRADOC	AMBYSTOMA CALIFORNIENSE (=A. TIGRINUM C.)	AMBYSTOMA CALIFORNIENSE (=A. TIGRINUM C.)	C	AMP	NA
TRADOC	ANNIELLA PULCHRA NIGRA	CALIFORNIA BLACK LEGLESS LIZARD	PE	REP	NA
TRADOC	ERIGERON LEMMONII	LEMMON FLEABANE	C	PLA	NA
TRADOC	LILAEOPSIS SCHAFFNERIANA SSP. RECURVA	HUACHUCA WATER-UMBEL	PE	PLA	NA
TRADOC	PIPERIA YADONII	YADON'S PIPERIA	PE	PLA	NA
TRADOC	PYRGULOPSIS THOMPSONI	SPRINGSNAIL, HUACHUCA	C	SNA	NA
TRADOC	RANA SUBAQUAVOCALIS	FROG, RAMSEY CANYON LEOPARD	C	AMP	NA
TRADOC	RUMEX ORTHONEURUS	BLUMER'S DOCK	C	PLA	NA
					\$3,602,031

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
USARC	LYCAEIDES MELISSA SAMUELIS	BUTTERFLY, KARNER BLUE	E	INS	\$87,668
USARC	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	E	MAM	\$82,500
USARC	CHAMAESYCE (=EUPHORBIA) DELTOIDEA SSP. DELTOIDEA	DELTOID SPURGE	E	PLA	\$42,000
USARC	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	\$17,700
USARC	RHUS MICHAUXII	MICHAUX'S SUMAC	E	PLA	\$13,000
USARC	BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL	T	CRU	\$7,500
USARC	BUFO MICROSCAPHUS CALIFORNICUS	TOAD, ARROYO SOUTHWESTERN	E	AMP	\$2,500
USARC	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	\$2,500
USARC	VIREO BELLII PUSILLUS	VIREO, LEAST BELL'S	E	BIR	\$2,500
USARC	FALCO PEREGRINUS	FALCON, PEREGRINE	E(S/A)	BIR	\$200
USARC	AMBYSTOMA CALIFORNIENSE (=A. TIGRINUM C.)	AMBYSTOMA CALIFORNIENSE (=A. TIGRINUM C.)	C	AMP	NA
USARC	CHLOROGALIUM PURPUREUM VAR. PURPUREUM	PURPLE AMOLE	C	PLA	NA
USARC	RANA AURORA DRAYTONI	FROG, CALIFORNIA RED-LEGGED	PE	AMP	NA
					\$258,068

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
USARPAC	LOXIOIDES BAILLEUI	PALILA	E	BIR	\$57,000
USARPAC	HAPLOSTACHYS HAPLOSTACHYA	NONE	E	PLA	\$12,500
USARPAC	SILENE LANCEOLATA	LANCELEAF CATCHFLY	E	PLA	\$12,500
USARPAC	MELICOME LYDGATEI	ALANI	E	PLA	\$2,000
USARPAC	CYANEA SUPERBA SSP. SUPERBA	OHA	E	PLA	\$1,000
USARPAC	NERAUDIA ANGULATA VAR DENTATA	MA'ALOA	E	PLA	\$1,000
USARPAC	NERAUDIA ANGULATA VAR. ANGULATA	MA'ALOA	E	PLA	\$1,000
USARPAC	PTERIS LIDGATEI	NONE	E	PLA	\$1,000
USARPAC	VIOLA CHAMISSONIANA SSP CHAMISSONIANA	PAMAKANI	E	PLA	\$1,000
USARPAC	LYCOPodium NUTANS	WAWAE'IOLE	E	PLA	\$900
USARPAC	PHYLOSTEGIA PARVIFLORA VAR PARVIFLORA	NONE	E	PLA	\$900
USARPAC	SANICULA MARIVERSA	NONE	E	PLA	\$900
USARPAC	EUGENIA KOOLAUENSIS	NOOI	E	PLA	\$650
USARPAC	AL SINIDENDRON OBOVATUM	NONE	E	PLA	\$500
USARPAC	DUBAUTIA HERBSTOBATAE	NA'ENA'E	E	PLA	\$500
USARPAC	FLUEGGEA NEOWAWRAEA	MEHAMEHAME	E	PLA	\$500
USARPAC	TETRAMOLOPIUM FILIFORME VAR POLYPHYLLUM	NONE	E	PLA	\$400
USARPAC	SOLANUM INCOMPLETUM	SPINY POPOLO	E	PLA	\$200
USARPAC	SPERMOLEPIS HAWAIIENSIS	HAWAIIAN PARSLEY	E	PLA	\$1
USARPAC	ACHATINELLA ROSEA	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA APEXFULVA	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA BULIMOIDES	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA BYRONII	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA DECIPiens	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA LEUCORRAPHE	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA LILA	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA LIVIDA	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA MUSTELINA	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA PULCHERRIMA	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA SOWERBYANA	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ACHATINELLA SWIFTII	PUPU KUAHIWI	E	SNA	\$0
USARPAC	ADENOPHORUS PERIENS	NONE	E	PLA	\$0
USARPAC	ALECTRYON MACROCOCCUS VAR. MACROCOCCUS	ALA'ALAHUA, MAHOE	E	PLA	\$0
USARPAC	AL SINIDENDRON TRINERVE	NONE	E	PLA	\$0
USARPAC	ANAS WYVILLIANA	HAWAIIAN DUCK	E	BIR	\$0
USARPAC	ASPLENIUM FRAGILE VAR. INSULARE	FRAGILE FERN	E	PLA	\$0
USARPAC	BONAMIA MENZIESII	NONE	E	PLA	\$0
USARPAC	BUTEO SOLITARIUS	HAWK, HAWAIIAN (=IO)	E	BIR	\$0
USARPAC	CAESALPINIA (=MEZONEURON) KAVAIENSE	UHIUHI	E	PLA	\$0
USARPAC	CYANEA ACUMINATA	OHA, HAHA	PE	PLA	\$0
USARPAC	CYANEA GRIMESIANA SSP. GRIMESIANA	OHA, HAHA	E	PLA	\$0
USARPAC	DIELLIA FALCATA	NONE	E	PLA	\$0
USARPAC	FULICA AMERICANA ALAI	HAWAIIAN COOT	E	BIR	\$0
USARPAC	GALLINULA CHLOROPUS SANDVICENSIS	HAWAIIAN GALLINULE	E	BIR	\$0
USARPAC	HEDYOTIS CORIACEA	KIO'ELE	E	PLA	\$0
USARPAC	HEDYOTIS PARVULA	NONE	E	PLA	\$0
USARPAC	HEMIGNATHUS MUNROI (=WILSONI)	'AKIAPOLA'AU (HONEYCREEPER)	E	BIR	\$0
USARPAC	HESPEROMANNIA ARBORESCENS	NONE	E	PLA	\$0
USARPAC	HIMANTOPUS MEXICANUS (=HIMANTOPUS) KNUDSENI	STILT, HAWAIIAN (=AE'O)	E	BIR	\$0
USARPAC	LASIURUS CINEREUS SEMOTUS	BAT, HAWAIIAN HOARY	E	MAM	\$0

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
USARPAC	LIPOCHEETA TENUIFOLIA	NEHE	E	PLA	\$0
USARPAC	LOBELIA NIIHUAENSIS	OHA, HAHA	E	PLA	\$0
USARPAC	LOBELIA OAHUENSIS	OHA, HAHA	E	PLA	\$0
USARPAC	MONACHUS SCHAUINSLANDI	HAWAIIAN MONK SEAL	E	MAM	\$0
USARPAC	NESOCHEM (=BRANTA) SANDVICENSIS	GOOSE, HAWAIIAN (=NENE)	E	BIR	\$0
USARPAC	NOTOTRICHUM HUMILE	KULU'I	E	PLA	\$0
USARPAC	PAROREOMYZA (=OREOMYSTIS, =LOXOPS) FLAMMEA	CREEPER, MOLOKAI (=KAKAWAHIE)	E	BIR	\$0
USARPAC	PLANTAGO PRINCEPS VAR PRINCEPS	LAUKAHI KUAHIWI	E	PLA	\$0
USARPAC	PLANTAGO PRINCEPS VAR. LONGIBRACTEATA	LAUKAHI KUAHIWI	E	PLA	\$0
USARPAC	PORTULACA SCLEROARPA	PO'E	E	PLA	\$0
USARPAC	ROLLANDIA CRISPA [CYANEA CRISPA]	OHA, HAHA	E	PLA	\$0
USARPAC	SILENE HAWAIIENSIS	HAWAIIAN CATCHFLY	T	PLA	\$0
USARPAC	STENOZYNE ANGUSTIFOLIA	NONE	E	PLA	\$0
USARPAC	TETRAMOLOPIUM ARENARIUM	MAUNA KEA PAMAKANI	E	PLA	\$0
USARPAC	TETRAPLASANDRA GYMNOCARPA	'OHE 'OHE	E	PLA	\$0
USARPAC	URERA KAALAE	OPUHE	E	PLA	\$0
USARPAC	ZANTHOXYLUM HAWAIIENSE	A'E	E	PLA	\$0
USARPAC	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	E	BIR	NR
USARPAC	CENCHRUS AGRIMONOIDES	KAMANOMANO (=SANDBUR, AGRIMONY)	PE	PLA	NA
USARPAC	CHAMAESYCE ROCKII	AKOKO	PE	PLA	NA
USARPAC	CHASIEMPIIS SANDWICHENSIS IBIDIS	OAHU 'ELEPAIO	C	BIR	NA
USARPAC	CYANEA KOOLAUENSIS	OHA, HAHA	PE	PLA	NA
USARPAC	CYANEA LONGIFLORA	OHA, HAHA	PE	PLA	NA
USARPAC	CYPERUS TRACHYSANTHOS	PU'UKA'A	PE	PLA	NA
USARPAC	CYRTANDRA DENTATA	HA'IWALE	PE	PLA	NA
USARPAC	CYRTANDRA SUBUMBELLATA	HA'IWALE	PE	PLA	NA
USARPAC	CYRTANDRA VIRIDIFLORA	HA'IWALE	PE	PLA	NA
USARPAC	EUPHORBIA HAELEELEANA	'AKOKO	PE	PLA	NA
USARPAC	GARDENIA MANNII	NANU	PE	PLA	NA
USARPAC	ISODENDRION LAURIFOLIUM	AUPAKA	PE	PLA	NA
USARPAC	LABORDIA CYRTANDRAE	KAMAKAHALA	PE	PLA	NA
USARPAC	LEPIDIUM ARBUSCULA	ANAUNAU	PE	PLA	NA
USARPAC	LOBELIA GAUDICHAUDII SSP. KOOLAUENSIS	OHA, HAHA	PE	PLA	NA
USARPAC	MYRSINE JUDDII	KOLEA	PE	PLA	NA
USARPAC	NERAUDIA OVATA	MA'ALOA	PE	PLA	NA
USARPAC	PHYLLOSTEGIA HIRSUTA	NONE	PE	PLA	NA
USARPAC	PRITCHARDIA KAALAE	LOULU	PE	PLA	NA
USARPAC	SANICULA PURPUREA	NONE	PE	PLA	NA
USARPAC	SCHIEDEA HOOKERI	NONE	PE	PLA	NA
USARPAC	SCHIEDEA KEALIAE	MA'OLI'OLI	PE	PLA	NA
USARPAC	SCHIEDEA NUTTALLII	NONE	PE	PLA	NA
USARPAC	VIOLA OAHUENSIS	NONE	PE	PLA	NA
					\$94,451

MACOM	Scientific Name	Common Name	Fed Status	Cat	Total Cost
USMA	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	T	BIR	\$7,200
USMA	ACIPENSER BREVIROSTRUM	STURGEON, SHORTNOSE	E	FIS	\$0
					\$7,200

## Appendix L: Total Expenditures for Installations That Allocated Money for Onsite T&E Species

MACOM	Installation	Total Cost	Number of onsite T&E species for which money was allocated
AMC	REDSTONE ARSENAL	\$39,990	1
AMC	ABERDEEN PROVING GROUND	\$85,000	1
AMC	ARMY RESEARCH LABS (ADELPHI)	\$10,000	1
AMC	YUMA PROVING GROUND	\$51,000	2
AMC	SAVANNA ARMY DEPOT ACTIVITY	\$4,350	2
AMC	WHITE SANDS MISSILE RANGE	\$66,000	2
AMC	SIERRA ARMY DEPOT	\$2,000	2
FORSCOM	YAKIMA TRAINING CENTER	\$20,000	1
FORSCOM	FT BRAGG	\$1,479,122	5
FORSCOM	PINON CANYON MANEUVER SITE	\$100	1
FORSCOM	FT. POLK	\$453,000	1
FORSCOM	FT HOOD	\$990,000	2
FORSCOM	FT IRWIN	\$295,211	1
FORSCOM	FT LEWIS	\$50,000	1
FORSCOM	FT RILEY	\$18,000	4
FORSCOM	FT CARSON	\$54,300	5
FORSCOM	FT STEWART & HUNTER ARMY AIRFIELD	\$918,009	4
MDW	FT BELVOIR	\$14,000	1
MEDCOM	FT SAM HOUSTON	\$70,000	2
MTMC	1303D MAJOR PORT COMMAND, SUNNY POINT	\$4,000	1
NGB	OK-ARNG, CAMP GRUBER	\$35,000	1
NGB	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	\$3,000	2
NGB	NV-ARNG, CLARK COUNTY TS	\$58,000	1
NGB	NV-ARNG, STEAD TS	\$44,000	2
NGB	MS-ARNG, CAMP SHELBY	\$170,000	2
NGB	MO-NGB, SKELTON TS	\$200	1
NGB	CA-ARNG, CAMP SAN LUIS OBISPO	\$15,120	2
NGB	CA-ARNG, CAMP ROBERTS	\$174,000	2
NGB	MN-ARNG, CAMP RIPLEY	\$21,000	2
NGB	MI-ARNG, CAMP GRAYLING	\$600	1
NGB	MD-ARNG, LIL AARON STRAUS WILDERNESS AREA	\$10,000	1
NGB	WA-ARNG, CAMP MURRAY	\$1,000	1
NGB	TX-ARNG, CAMP BARKELEY	\$40,000	1
NGB	FL-ARNG, CAMP BLANDING TS	\$30,000	1
NGB	OR-ARNG, CAMP RILEA	\$10,000	1
TRADOC	FT BLISS	\$125,000	2
TRADOC	FT SILL	\$40,000	1
TRADOC	FT GORDON	\$40,000	1
TRADOC	FT LEE	\$1,200	1
TRADOC	FT CHAFFEE	\$50,000	1
TRADOC	FT JACKSON	\$299,680	3
TRADOC	FT MCCLELLAN	\$98,500	4
TRADOC	FT BENNING	\$2,867,450	5
TRADOC	POM ANNEX	\$99,001	4
TRADOC	FT HUACHUCA	\$159,500	2

MACOM	Installation	Total Cost	Number of onsite T&E species for which money was allocated
TRADOC	FORT KNOX	\$100,000	2
USARC	MARTINEZ RESERVE CENTER	\$42,000	1
USARC	FT PICKETT	\$13,000	1
USARC	FT HUNTER LIGGETT	\$115,000	6
USARC	FT MCCOY	\$87,668	1
USARC	DEVENS RFTA	\$400	2
USARPAC	KAWAILOA TA	\$4,300	4
USARPAC	SCHOFIELD BARRACKS MILITARY RESERVATION	\$2,500	5
USARPAC	KAHUKU TA	\$650	1
USARPAC	MAKUA MILITARY RESERVATION	\$4,801	10
USARPAC	POHAKULOA TA	\$82,200	4
USMA	US MILITARY ACADEMY, WEST POINT	\$7,200	1

## Appendix M: Distinct Species Causing Restrictions, by Federal Status

Fed Status	Scientific Name	Common Name
C	ASTRAGALUS JAEGERIANUS	LANE MOUNTAIN MILK VETCH
C	CHLOROGALIUM PURPUREUM VAR. PURPUREUM	PURPLE AMOLE
E	ACHATINELLA MUSTELINA	PUPU KUAHIWI
E	ARCTOMECON HUMILIS	DWARF BEARCLAW POPPY
E	ASPLENIUM FRAGILE VAR. INSULARE	FRAGILE FERN
E	DENDROICA CHRYSOPARIA	GOLDEN-CHEEKED WARBLER
E	DENDROICA KIRTLANDII	WARBLER (WOOD), KIRTLAND'S
E	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER
E	FALCO FEMORALIS SEPTENTRIONALIS	FALCON, NORTHERN APLOMADO
E	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE
E	HAPLOSTACHYS HAPLOSTACHYA	NONE
E	HEDEOMA TODSENII	TODSEN'S PENNYROYAL
E	HEDYOTIS CORIACEA	KIO'ELE
E	HYMENOXYS TEXANA	TEXAS PRAIRIE DAWN-FLOWER (=TEXAS BITTERWEED)
E	ISOETES LOUISIANENSIS	LOUISIANA QUILLWORT
E	LEPTONYCTERIS CURASOAE (=SANBORN) YERBABUENAE	BAT, LESSER (=SANBORN'S) LONG-NOSED
E	LOXOIDES BAILLEUI	PALILA
E	LYCAEIDES MELISSA SAMUELIS	BUTTERFLY, KARNER BLUE
E	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE
E	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED
E	PORTULACA SCLEROCARPA	PO'E
E	PTILIMNIUM NODOSUM	HARPERELLA
E	SESBANIA TOMENTOSA	OHAI
E	SILENE LANCEOLATA	LANCELEAF CATCHFLY
E	SPERMOLEPIS HAWAIIENSIS	HAWAIIAN PARSLEY
E	STENOZYNE ANGUSTIFOLIA	NONE
E	TETRAMOLOPIUM ARENARIUM	MAUNA KEA PAMAKANI
E	TRILLIUM RELIQUUM	RELICT TRILLIUM
E	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED
E	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT
E	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS
E	ZANTHOXYLUM HAWAIIENSE	A'E
E(S/A)	FALCO PEREGRINUS	FALCON, PEREGRINE
PT	HELIANTHUS EGGERTII	EGGERT'S SUNFLOWER
T	BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL
T	CYPRINELLA CAERULEA	BLUE SHINER
T	GOPHERUS AGASSIZII	DESERT TORTOISE
T	GOPHERUS POLYPHEMUS	GOPHER TORTOISE
T	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD
T	MARSHALLIA MOHRII	MOHR'S BARBARA BUTTONS
T	ONCORHYNCHUS CLARKI STOMIAS	GREENBACK CUTTHROAT TROUT
T	SILENE HAWAIIENSIS	HAWAIIAN CATCHFLY
T	SOLIDAGO HOUGHTONII	HOUGHTON'S GOLDENROD
T	SPEYERIA ZERENE HIPPOLYTA	OREGON SILVERSPOUT BUTTERFLY
T	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED

## Appendix N: Distinct Species Causing Restrictions, by MACOM

MACOM	Scientific Name	Common Name	Installation	Fed Stat
AMC	FALCO FEMORALIS SEPTENTRIONALIS	FALCON, NORTHERN APLOMADO	WHITE SANDS MISSILE RANGE	E
AMC	FALCO PEREGRINUS	FALCON, PEREGRINE	SIERRA ARMY DEPOT	E(S/A)
AMC	FALCO PEREGRINUS ANATUM	FALCON, AMERICAN PEREGRINE	WHITE SANDS MISSILE RANGE	E
AMC	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	ABERDEEN, ARMY RESEARCH LABS, HOLSTON, SIERRA ARMY DEPOT	T
AMC	HEDEOMA TODSENII	TODSEN'S PENNYROYAL	WHITE SANDS MISSILE RANGE	E
FORSCOM	ASTRAGALUS JAEGERIANUS	LANE MOUNTAIN MILK VETCH	FT IRWIN	C
FORSCOM	DENDROICA CHRYSORHAPTRIA	GOLDEN-CHEEKED WARBLER	FT HOOD	E
FORSCOM	GOPHERUS AGASSIZII	DESERT TORTOISE	FT IRWIN	T
FORSCOM	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	FT HOOD, FT LEWIS, FT STEWART, YAKIMA	T
FORSCOM	LYSIMACHIA ASPERULAEFOLIA	ROUGH-LEAVED LOOSESTRIFE	FT BRAGG	E
FORSCOM	NEONYMPHA MITCHELLII FRANCISCI	BUTTERFLY, SAINT FRANCIS' SATYR	FT BRAGG	E
FORSCOM	ONCORHYNCHUS CLARKI STOMIAS	GREENBACK CUTTHROAT TROUT	FT CARSON	T
FORSCOM	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	FT BRAGG, FT STEWART, FT POLK	E
FORSCOM	RHUS MICHAUXII	MICHAUX'S SUMAC	FT BRAGG	E
FORSCOM	SCHWALBEA AMERICANA	AMERICAN CHAFFSEED	FT BRAGG	E
FORSCOM	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	FT HOOD	E
MDW	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	FT BELVOIR	T
MEDCOM	DENDROICA CHRYSORHAPTRIA	GOLDEN-CHEEKED WARBLER	FT SAM HOUSTON	E
MEDCOM	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	FT SAM HOUSTON	E
MTMC	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	1303D MAJOR PORT COMMAND, SUNNY POINT	E
NGB	ARCTOMECON HUMILIS	DWARF BEARCLAW POPPY	UT-ARNG, ST. GEORGE ARMORY	E
NGB	BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL	CA-ARNG, CAMP ROBERTS	T
NGB	DENDROICA KIRTLANDII	WARBLER (WOOD), KIRTLAND'S	MI-ARNG, CAMP GRAYLING	E
NGB	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	SC-ARNG, LEESBURG TRAINING SITE	E
NGB	FALCO PEREGRINUS	FALCON, PEREGRINE	NV-ARNG, STEAD TS	E(S/A)
NGB	GOPHERUS AGASSIZII	DESERT TORTOISE	NV-ARNG, CLARK TS	T
NGB	GOPHERUS POLYPHEMUS	GOPHER TORTOISE	MS-ARNG, CAMP SHELBY	T
NGB	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	CAMP NAVAJO MILITARY RESERVATION, CAMP GRAYLING, CAMP RIPLEY, TRUMAN TS, STEAD TS	T
NGB	HELIANTHUS EGGERTII	EGGERT'S SUNFLOWER	TN-ARNG, TULLAHOMA TS	PT
NGB	HYMENOXYS TEXANA	TEXAS PRAIRIE DAWN-FLOWER (=TEXAS BITTERWEED)	TX-ARNG (ADDICKS RESERVOIR)	E
NGB	ISOETES LOUISIANENSIS	LOUISIANA QUILLWORT	MS-ARNG, CAMP SHELBY	E
NGB	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	CAMP BLANDING TS, LEESBURG TS	E

MACOM	Scientific Name	Common Name	Installation	Fed Stat
NGB	PTILIMNIUM NODOSUM	HARPERELLA	MD-ARNG, LIL AARON STRAUS WILDERNESS AREA	E
NGB	SESBANIA TOMENTOSA VAR. ARBOREA	OHAI	HI-ARNG, KANAIO LTA	E
NGB	SOLIDAGO HOUGHTONII	HOUGHTON'S GOLDENROD	MI-ARNG, CAMP GRAYLING	T
NGB	SPEYERIA ZERENE HIPPOLYTA	OREGON SILVERSPOT BUTTERFLY	OR-ARNG, CAMP RILEA	T
NGB	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION	T
NGB	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	TX-ARNG, CAMP BARKELEY	E
NGB	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	CA-ARNG, CAMP ROBERTS	E
TRADOC	CYPRINELLA CAERULEA	BLUE SHINER	FT MCCLELLAN	T
TRADOC	ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER	FT JACKSON	E
TRADOC	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	FT BENNING, FT LEE	T
TRADOC	LEPTONYCTERIS CURASOAE (=SANBORN'S) YERBABUENAE	BAT, LESSER (=SANBORN'S) LONG-NOSED	FT HUACHUCA	E
TRADOC	MARSHALLIA MOHRII	MOHR'S BARBARA BUTTONS	FT MCCLELLAN	T
TRADOC	NICROPHORUS AMERICANUS	AMERICAN BURYING BEETLE	FT CHAFFEE	E
TRADOC	PICOIDES (=DENDROCOPOS) BOREALIS	WOODPECKER, RED-COCKADED	FT BENNING, FT GORDON, FT JACKSON	E
TRADOC	STRIX OCCIDENTALIS LUCIDA	OWL, MEXICAN SPOTTED	FT HUACHUCA	T
TRADOC	TRILLIUM RELIQUUM	RELICT TRILLIUM	FT BENNING	E
TRADOC	VIREO ATRICAPILLUS	VIREO, BLACK-CAPPED	FT SILL	E
TRADOC	XYRIS TENNESSEENSIS	TENNESSEE YELLOW-EYED GRASS	FT MCCLELLAN	E
USARC	BRANCHINECTA LYNCHI	FAIRY SHRIMP, VERNAL POOL	FT HUNTER LIGGETT	T
USARC	CHLOROGALIUM PURPUREUM VAR. PURPUREUM	PURPLE AMOLE	FT HUNTER LIGGETT	C
USARC	HALIAEETUS LEUCOCEPHALUS	EAGLE, BALD	FT HUNTER LIGGETT	T
USARC	LYCAEIDES MELISSA SAMUELIS	BUTTERFLY, KARNER BLUE	FT MCCOY	E
USARC	VULPES MACROTIS MUTICA	FOX, SAN JOAQUIN KIT	FT HUNTER LIGGETT	E
USARPAC	ACHATINELLA MUSTELINA	PUPU KUAHIWI	MAKUA MILITARY RESERVATION	E
USARPAC	ASPLENIUM FRAGILE VAR. INSULARE	FRAGILE FERN	POHAKULOA TA	E
USARPAC	HAPLOSTACHYS HAPLOSTACHYA	NONE	POHAKULOA TA	E
USARPAC	HEDYOTIS CORIACEA	KIO'ELE	POHAKULOA TA	E
USARPAC	LOXOIDES BAILLEUI	PALILA	POHAKULOA TA	E
USARPAC	PORTULACA SCLEROCARPA	PO'E	POHAKULOA TA	E
USARPAC	SILENE HAWAIIENSIS	HAWAIIAN CATCHFLY	POHAKULOA TA	T
USARPAC	SILENE LANCEOLATA	LANCELEAF CATCHFLY	POHAKULOA TA	E
USARPAC	SPERMOLEPIS HAWAIIENSIS	HAWAIIAN PARSLEY	POHAKULOA TA	E
USARPAC	STENOZYNE ANGUSTIFOLIA	NONE	POHAKULOA TA	E
USARPAC	TETRAMOLOPIUM ARENARIUM	MAUNA KEA PAMAKANI	POHAKULOA TA	E
USARPAC	ZANTHOXYLUM HAWAIIENSE	A'E	POHAKULOA TA	E

## Appendix O: Number of Restriction Occurrences and Number of Installations With Restrictions for Distinct Onsite TEPC

SCIENTIFIC NAME	Number of restriction occurrences for this species	Number of installations with restrictions for this species
VULPES MACROTIS MUTICA	30	2
PICOIDES (=DENDROCOPOS) BOREALIS	27	10
HALIAEETUS LEUCOCEPHALUS	26	17
LOXOIDES BAILLEUI	9	1
SILENE HAWAIIENSIS	9	1
VIREO ATRICAPILLUS	9	4
SILENE LANCEOLATA	8	1
STENOZYNE ANGUSTIFOLIA	8	1
ASPLENIUM FRAGILE VAR. INSULARE	7	1
HAPLOSTACHYS HAPLOSTACHYA	7	1
HEDYOTIS CORIACEA	7	1
PORTULACA SCLEROCARPA	7	2
BRANCHINECTA LYNCHI	6	2
LYCAEIDES MELISSA SAMUELIS	6	1
TETRAMOLOPIUM ARENARIUM	6	1
DENDROICA CHRYSOPARIA	5	2
NICROPHORUS AMERICANUS	5	1
SESBANIA TOMENTOSA VAR. ARBOREA	4	1
FALCO PEREGRINUS	3	2
GOPHERUS AGASSIZII	3	2
ACHATINELLA MUSTELINA	2	1
ASTRAGALUS JAEGERIANUS	2	1
CHLOROGALIUM PURPUREUM VAR. PURPUREUM	2	1
DENDROICA KIRTLANDII	2	1
ECHINACEA LAEVIGATA	2	2
HELIANTHUS EGGERTII	2	1
LEPTONYCTERIS CURASOAE (=SANBORNII) YERBABUENAE	2	1

SCIENTIFIC NAME	Number of restriction occurrences for this species	Number of installations with restrictions for this species
STRIX OCCIDENTALIS LUCIDA	2	2
ARCTOMECON HUMILIS	1	1
CYPRINELLA CAERULEA	1	1
FALCO FEMORALIS SEPTENTRIONALIS	1	1
FALCO PEREGRINUS ANATUM	1	1
GOPHERUS POLYPHEMUS	1	1
HEDEOMA TODSENII	1	1
HYMENOXYS TEXANA	1	1
ISOETES LOUISIANENSIS	1	1
MARSHALLIA MOHRII	1	1
ONCORHYNCHUS CLARKI STOMIAS	1	1
PTILIMUM NODOSUM	1	1
SOLIDAGO HOUGHTONII	1	1
SPERMOLEPIS HAWAIIENSIS	1	1
SPEYERIA ZERENE HIPPOLYTA	1	1
TRILLIUM RELIQUUM	1	1
XYRIS TENNESSEENSIS	1	1
ZANTHOXYLUM HAWAIIENSE	1	1
<b>Grand Total</b>	<b>225</b>	

## Appendix P: Species Causing Restrictions on Multiple Installations and Names of Installations Where Found

Common Name	Scientific Name	Federal Status	Number of Installations	Name of Installations
Eagle, Bald	<i>Haliaeetus leucocephalus</i>	T	17	ABERDEEN PROVING GROUND FT BELVOIR FT BENNING MI-ARNG, CAMP GRAYLING HOLSTON AAP FT HOOD FT HUNTER LIGGETT FT LEE FT LEWIS AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION SIERRA ARMY DEPOT NV-ARNG, STEAD TS FT STEWART & HUNTER ARMY AIRFIELD MO-NGB, TRUMAN TS YAKIMA TRAINING CENTER ARMY RESEARCH LABS (ADELPHI) MN-ARNG, CAMP RIPLEY
Woodpecker, Red-Cockaded	<i>Picoides borealis</i>	E	10	FT. POLK 1303D MAJOR PORT COMMAND, SUNNY POINT FT BRAGG FT BENNING FL-ARNG, CAMP BLANDING TS FT GORDON FT JACKSON SC-ARNG, LEESBURG TRAINING SITE FT STEWART & HUNTER ARMY AIRFIELD
Vireo, Black-capped	<i>Vireo atricapillus</i>	E	4	TX-ARNG, CAMP BARKELEY FT SAM HOUSTON FT HOOD FT SILL
Falcon, Peregrine	<i>Falco peregrinus</i>	E(S/A)	2	SIERRA ARMY DEPOT NV-ARNG, STEAD TS
Fairy Shrimp	<i>Branchinecta lynchi</i>	T	2	CA-ARNG, CAMP ROBERTS FT HUNTER LIGGETT
Golden-cheeked Warbler	<i>Dendroica chrysoparia</i>	E	2	FT SAM HOUSTON FT HOOD
Smooth Coneflower	<i>Echinacea laevigata</i>	E	2	FT JACKSON SC-ARNG, LEESBURG TRAINING SITE
Fox, San Joaquin Kit	<i>Vulpes macrotis mutica</i>	E	2	FT HUNTER LIGGETT CA-ARNG, CAMP ROBERTS
Desert Tortoise	<i>Gopherus agassizii</i>	T	2	NV-ARNG, CLARK TS FT IRWIN
Owl, Mexican Spotted	<i>Strix occidentalis lucida</i>	T	2	AZ-ARNG, CAMP NAVAJO MILITARY RESERVATION FT HUACHUCA

## Appendix Q: Installation Names and Number of Restrictions and Species Causing RED Impacts, by MACOM

Degree of impact	MACOMs with installations reporting red impacts	Installation names	Number of restrictions causing red impacts on each installation	Number of species causing red impacts on each installation
Restriction level	NGB	NV-ARNG, Clark Co TS NV-ARNG, Stead TS SC-ARNG, Leesburg TA Pohakuloa TA	1 2	--
	USARPAC		19	
Species level	NGB	NV-ARNG, Clark Co TS SC-ARNG, Leesburg TA	--	1 1
Installation level	NGB	NV-ARNG, Clark Co TS SC-ARNG, Leesburg TA	--	--

## **Appendix R: Installation Names and Number of Restrictions and Species Causing AMBER Impacts, by MACOM**

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